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PERSONAL.

Capt. D. F. A. Wheelock, Assoc. Mem. Am. Soc. C. E., has been re-elected City Engineer of Warren, Pa.

Mr. John De Wolf, of Brooklyn, has been appointed Landscape Architect of the Department of Public Parks of New York city.

Mr. W. C. Halliday has been made Chief Engineer of the Tacoma & Columbia River Ry., with headquarters at Tacoma, Wash.

Mr. M. C. Murphy has been appointed President of the Board of Health of New York city, to succeed Mr. Nathan Straus, who has resigned.

Mr. John Franklin has been appointed City Engineer and Superintendent of Public Works, of Hudson, N. Y., to succeed Mr. C. E. Gore.

Mr. Richard Carroll, formerly General Manager of the Queen & Crescent Route, has been elected Vice-President and General Manager of the Mobile & Ohio R. R., to succeed Mr. J. G. Mann.

Mr. C. L. Gist, Chief Train Despatcher of the Pittsburg & Lake Erie R. R., with headquarters at Pittsburg, Pa., has been appointed Superintendent of Telegraph in addition to retaining his present position.

Gen. John Walker, General Manager for Messrs. Fraser & Chalmers, machinery and pump builders, of Chicago, Ill., has resigned to enter the mining engineering business, and will also attend to his interests in certain mining property in the Black Hills.

Dr. B. E. Fernow, Chief of the Department of Forestry, recently delivered a lecture to the students of the School of Civil Engineering of the University of the City of New York, in which the experiments which led up to his discovery of the relation between transverse and crushing tests were described at some length.

Mr. J. M. Schoonmaker, Vice-President of the Pittsburg & Lake Erie R. R., has been also elected General Manager, with headquarters at Pittsburg, Pa. Mr. G. M. Beach, General Superintendent, has been appointed Assistant General Manager, and Mr. J. B. Yohe, Superintendent, has been appointed General Superintendent, both with headquarters at Pittsburg, Pa.

Prof. James E. Keeler, of the Allegheny Observatory, March 8, was elected by the Regents of the California State University, as a director of the Lick Observatory. He succeeds Prof. Edward S. Holden, who has recently resigned after 25 years' service. Professor Keeler was educated at Johns Hopkins University, and has made a specialty of spectroscope work. His most famous discovery was that the rings of Saturn were composed of small satellites.

Mr. Edward P. North, M. Am. Soc. C. E., and late Consulting Engineer to the Department of Highways, of New York city, has resigned his position, the resignation dating from March 1. Mr. North was appointed Water Purveyor to the Department of Public Works of New York in 1895, the title being a misnomer, however, as he was really in almost absolute control of the paving and repaving work of the city. Early last year he was made Consulting Engineer to the Department, with $1,000 increase in salary. As the daily press noted at the time, Controller Fitch objected to this increase; but the friends of Mr. North will be pleased to learn that the objection was not sustained by the new administration and the full compensation has been allowed.

OBITUARY.

Mr. Henry C. Clark, President of the Providence Coal Co., Providence, R. I., died March 3, aged 75.

Mr. Walter F. Clare, Purchasing Engineer for the Boston Transit Co., Boston, Mass., died recently, aged 50.

Mr. Isaac A. Sheppard, head of the firm of Isaac A. Sheppard & Co., proprietors of the Excelsior Stove & Hollow-Ware Foundry, Philadelphia, Pa., died March 6, aged 71.

Capt. Charles S. Gauntt, at one time Assistant Superintendent of Transportation of the Camden & Amboy R. R., died at Burlington, N. J., Feb. 27, aged 72. He held the above position until the road became part of the Pennsylvania R. R., when he was made First Assistant Superintendent to the General Superintendent.

Mr. Leon Hubbard Evans, civil engineer, of Pawtucket, R. I., died Feb. 23, aged 33. Until a year ago he held the position of Superintendent of Sewer Construction, and since that time has been Foreman of Construction for the Pawtucket Gas Co.

Mr. James H. Carpenter, formerly General Manager of the Carpenter Steel Works, Reading, Pa., and inventor of the Carpenter projectile, died in that city, March 6, aged 51. He was born in New York city, and entered the United States Navy when 14 years of age. Later he entered the U. S. Naval Academy and served with distinction during the Civil War. In 1889 he established the Carpenter Steel Works and began the manufacture of steel armor-piercing projectiles for the U. S. government and high grade steel for cutlery purposes. Mr. Carpenter retired as General Manager of the company about a year ago, and since that time has devoted himself to experiments in improving steel, in New York. He was regarded as an authority on matters connected with iron and steel and was the author of many articles on scientific subjects. His death was due to pneumonia.

Mr. Hugh J. Jewett, who was at different times President of the Central Ohio R. R. and of the Erie Ry., died at Augusta, Ga., March 6. He was born July 1, 1817, near Glenville, Md., and was admitted to the bar in that state in 1838. He went to Zanesville, O., in 1848, and while there was appointed U. S. District Attorney by President Pierce. In 1857 he was elected President of the Central Ohio R. R., and also organized the Pittsburg, Cincinnati & St. Louis R. R., commonly called "The Panhandle." He was elected Vice-President and General Manager of the latter road, and about that time undertook the construction of the Kansas Pacific R. R. and other Western lines. He was one of the organizers of the Pennsylvania R. R., of which he became General Counsel. In 1872 he was elected to Congress, but resigned two years later to accept the office of President of the Erie Ry., afterwards being appointed its Receiver. He retained his official connection with the Erie until 1884, when he resigned.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

CENTRAL RAILWAY CLUB.
Mar. 11. Secy., H. D. Vought, 114 Fifth Ave., New York city.
NORTHWESTERN TRACK AND BRIDGE ASSOCIATION.
Mar. 11. Secy., D. W. Meeker, St. Paul, Minn.
ST. LOUIS RAILWAY CLUB.
Mar. 11. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.
MONTANA SOCIETY OF ENGINEERS.
Mar. 12. Secy., Albert S. Hovey, Helena, Mont.
INDIANAPOLIS ENGINEERING CLUB.
Mar. 12. Secy., Edson F. Folsom, Indianapolis, Ind.
ENGINEERS' CLUB OF KANSAS CITY.
Mar. 14. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Mar. 15. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.
WESTERN RAILWAY CLUB.
Mar. 15. Secy., F. M. Whyte, 225 Dearborn St., Chicago, Ill.
BOSTON SOCIETY OF CIVIL ENGINEERS.
Mar. 16. Secy., S. E. Tinkham, City Hall, Boston, Mass.
WESTERN FOUNDRYMEN'S ASSOCIATION.
Mar. 16. Secy., A. Sorge, Jr., 1020 Monadnock Block, Chicago, Ill.
ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
Mar. 16. Secy., Frank H. Olmsted, Los Angeles, Cal.
WESTERN SOCIETY OF ENGINEERS.
Mar. 16. "Mechanical Plants of Large Buildings," Dankmar Adler, and "Improved Portland Cement," John W. Dickinson. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.
ENGINEERS' CLUB OF ST. LOUIS.
Mar. 16. Secy., Richard McCulloch, St. Louis, Mo.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
Mar. 16. "Movable Dams," B. F. Thomas. Secy., C. W. Hunt, 220 West 57th St., New York city.
CANADIAN SOCIETY OF CIVIL ENGINEERS.
Mar. 17. Secy., C. H. McLeod, 112 Mansfield St., Montreal, Can.
SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Mar. 17. Secy., F. A. Charpiot, Macon, Ga.
ENGINEERS' CLUB OF CINCINNATI.
Mar. 17. Secy., J. F. Wilson, P.O. Box 333, Cincinnati, O.
NEW YORK RAILROAD CLUB.
Mar. 17. Secy., W. W. Wheatly, 168 Montague St., Brooklyn, N. Y.
CHICAGO ELECTRICAL ASSOCIATION.
Mar. 18. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.
THE ENGINEERS' CLUB OF PHILADELPHIA.
Mar. 19. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.
ENGINEERS' CLUB OF COLUMBUS.
Mar. 19. Secy., M. S. Hopkins, 14½ N. High St., Columbus, O.
TECHNICAL CLUB OF OMAHA.
Mar. 21. Secy., J. Harry Lawrie, Omaha, Neb.
ENGINEERS' CLUB OF MINNEAPOLIS.
Mar. 21. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
Mar. 21. Secy., Jas. K. Zollinger, 16 Norton Bldg., Louisville, Ky.
CIVIL ENGINEERS' CLUB OF CLEVELAND.
Mar. 22. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.
FRANKLIN INSTITUTE.
Mar. 22. "The Substitution of Electricity for Steam on Suburban Roads," Dr. Louis Duncan; Mar. 23. "Building Stone," Alexis A. Julien. Secy., Wm. H. Wahl, 15 S. Seventh St., Philadelphia, Pa.
ENGINEERING ASSOCIATION OF THE SOUTH.
Mar. 24. Secy., C. B. Wilson, Nashville, Tenn.
THE AMERICAN SOCIETY OF IRRIGATION ENGINEERS.
Mar. 25-26. Annual Meeting, Denver, Colo. Secy., John S. Titcomb, 38 Jacobson Block, Denver, Colo.
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
Mar. 30. Secy., R. W. Pope, 26 Cortlandt St., New York city.
TECHNICAL SOCIETY OF THE PACIFIC COAST.
Apr. 1. Secy., O. Von Geldern, 810 Market St., San Francisco, Cal.
CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
Apr. 4. Secy., C. L. Annan, City Engineers' Office, St. Paul, Minn.
ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Apr. 4. Secy., H. J. March, Library Bldg., Buffalo, N.Y.
BROOKLYN ENGINEERS' CLUB.
April 7. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
DENVER SOCIETY OF CIVIL ENGINEERS.
Apr. 8. Secy., W. B Lawson, 36 Jacobson Bldg, Denver, Colo.
NORTHWEST RAILWAY CLUB.
Apr. 12. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.
NEW ENGLAND RAILROAD CLUB.
Apr. 13. Secy., Edward L. Jones, P. O. Box 1158, Boston, Mass.
ILLINOIS STREET RAILWAY ASSOCIATION.
May 18. Annual meeting. Secy., C. K. Minary, Springfield City R. R., Springfield, Ill.

BROOKLYN ENGINEERS' CLUB.—At the last regular meeting of this club, held Mar. 3, the constitution was amended to change the regular monthly meeting from the first to the second Thursday. A paper on the "Wallabout Improvement" was presented by Mr. Frederick E. Pierce.
A. J. Provost, Jr., Secy.

WESTERN SOCIETY OF ENGINEERS.—The regular meeting was held in Chicago on Mar. 2. The report of the committee appointed to prepare a memorial on the death of Mr. Edwin C. Nourse was read by the secretary. A paper on "The Evolution of the American Type of Water Wheel," by Mr. W. W. Tyler, was read by Mr. T. L. Condron, describing the special differences in the American and European wheels, and the experiments made by which the former have been brought to their present stage of efficiency.

ENGINEERS' CLUB OF ST. LOUIS.—The regular meeting was held Mar. 2. Mr. Wm. H. Bryan read the paper of the evening entitled "Recent Improvements in Steam Ferries." After reviewing the objects of ferries and the different methods which had been used in their operation, the author described a steam ferry boat which has recently been put into operation in St. Louis. The boat is called the "Andrew Christy" and embodies some radical changes in Mississippi River ferry boat construction. The paper was well illustrated by drawings.
Richard McCulloch, Secy.

AMERICAN STREET RAILWAY ASSOCIATION.—Secretary Pennington has issued a circular outlining the plan for the 17th annual convention of this Association, to be held at Boston, Mass., Sept. 6-9, inclusive. The exhibits will be installed on the first floor of the Massachusetts Charitable Mechanics' Association Hall, where 60,000 ft. of floor space is available with all the light and power needed. Space will be rented at the rate of 10 cts. per sq. ft., in sections of not less than 100 sq. ft. The headquarters will be at the Hotel Brunswick. The railways will issue certificate tickets, as in the past. Further information as to details of exhibition can be obtained from Mr. T. C. Pennington, Secy., 2020 State St., Chicago, Ill.

NEW PUBLICATIONS.

CLASSIFICATION OF LAKES ACCORDING TO TEMPERATURE.—By Geo. C. Whipple, Director of Mt. Prospect Laboratory, Brooklyn Water Department, Brooklyn, N. Y. Reprinted from "The American Naturalist," Vol. XXXII., No. 373, January, 1898. Paper, 7 × 10 ins.; pp. 9; three figures in the text. Address the author.

A part of the discussion presented in this reprint has been abstracted for publication in the body of this journal. A bibliography of the subject is given by Mr. Whipple.

REPORT OF COMMISSIONERS ON THE TOPOGRAPHICAL SURVEY, COMMONWEALTH OF MASSACHUSETTS, for the Year 1897.—Public Document No. 50. Boston. Pamph.; 9¼ × 6 ins.; pp. 78.

Our issue of Dec. 23, 1897, pp. 407, contains an extended note upon the work of this survey, and the results secured. The report contains quite a full history of the establishment of the New York-Massachusetts boundary, from 1659, and the Rhode Island-Massachusetts boundary. An appendix covers the reports of engineers on work performed during the year, and the New York line work is treated at full length, about two-thirds of this line being now established.

TRADE PUBLICATIONS

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

Owing to an error in our printing office the notices of a number of circulars and pamphlets given in our last issue were not credited to the manufacturers publishing them. Those described under the heads of Bipolar Generators, Electric Railway Conduit, Partial List of Plants, Band Arc Lamps, Electric Rock Drill, "Siemens" and Electric Motors may be procured from the Siemens & Halske Electric Co., Chicago, Ill. Those headed Solenoid Blow Out Controller, Generator Construction, the Walker Pivoted Trolley and Arc Lamps can be had from the Walker Co., Cleveland, O.

SEWER AND CULVERT PIPE.—Monmouth Mining & Mfg. Co., Monmouth, Ill. Paper; 3½ × 5¾ ins.; pp. 8.

This little folder contains a record of tests of various makes of sewer pipe, and also testimonials and a price list of pipe for sewers and railway culverts.

HAIR BELTING.—Rossendale-Reddaway Belting & Hose Co., Newark, N. J.

A small pamphlet giving ten reasons why camel hair belting should be used. Tables giving test strength and cost per foot of different widths are included.

STEAM PUMPS.—Weinman Machine Works, Columbus, O. Paper, 4 × 6¾ ins.; pp. 28.

This firm manufactures horizontal pumps, having the steam and water cylinders set end to end, and also a horizontal automatic steam engine. A few pages are devoted to items of "useful information."

PIPE THREADING AND CUTTING MACHINES.—Columbus Machine Co., Columbus, O. Paper, 5 × 7 ins.; pp. 10.

This is an illustrated catalogue and price list of hand and power machines for threading and cutting pipe and bolts. The same firm manufactures the Brown gas and gasoline engine.

PORTABLE ELECTRIC DRILL (Kodolitsch System).—Schnabl & Co., Triest, Germany.

This circular gives 17 half-tone views of this form of electric drill at work. The apparatus consists of an electric motor mounted upon a two wheel truck and provided with suitable reduction gears for operating an extension shaft, either flexible or provided with two universal joints.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Mar. 10.	School building	Washington, D. C.	Mar. 3
Mar. 10.	Cedar poles, for power plant	Seattle, Wash.	Mar. 3
Mar. 10.	Garbage destruction	Buffalo, N. Y.	Mar. 3
Mar. 10.	Court house	Geneseo, N. Y.	Feb. 17
Mar. 10.	Dredging	Oakland Harbor, Cal.	Feb. 3
	Advertised, Eng. News, Feb. 3 to 24.		
Mar. 10.	Hot water pump, etc.,	Halletsville, Tex.	Feb. 24
Mar. 10.	Railroad grading (45 miles.),	Globe, Ariz.	Feb. 24
Mar. 10.	Bridge bonds ($8,000),	Fincastle, Va.	Feb. 24
Mar. 10.	Pipe sewer,	Spokane, Wash.	Feb. 24
Mar 10.	Lighting public buildings,	Memphis, Tenn.	Mar. 10
Mar. 10.	Grading sidewalks,	Seattle, Wash.	Mar. 10
Mar. 11.	Water bonds,	Millville, Mass.	Mar. 10
Mar. 11.	Jail,	Clay Center, Kan.	Mar. 3
Mar. 11.	Municipal building,	Stratford, Ont.	Mar. 3
Mar. 11.	Sidewalks,	Omaha, Neb.	Mar. 3
Mar. 11.	Building alterations,	Winnipeg, Man.	Mar. 3
Mar. 12.	Pipe sewers,	Akron, O.	Mar. 3
Mar. 12.	Coaling station,	Jersey City, N. J.	Mar. 3
	Advertised, Engineering News, Mar. 3.		
Mar. 12.	Macadamizing, etc.,	Norwood, O.	Mar. 3
Mar. 12.	Brick paving, etc.,	Akron, O.	Mar. 3
Mar. 12.	Board walk,	Atlantic City, N. J.	Mar. 3
	Advertised, Engineering News, Mar. 3.		
Mar. 12.	Clocks,	Troy, N. Y.	Mar. 3
Mar. 12.	Pile bridge (90 ft. long),	Omaha, Neb.	Feb. 24
Mar. 12.	Pipe sewer,	Napoleon, O.	Feb. 24
Mar. 12.	Combination bridge,	Fullerton, Neb.	Mar. 10
Mar. 12.	Sewers, castings, etc.,	New Haven, Conn.	Mar. 10
Mar. 12.	Cement, granite blocks, etc.,	Charleston, S.C.	Mar. 10
Mar. 14.	Repairing electrical apparatus,	New York.	Mar. 10
Mar. 14.	Stone or steel bridge,	St. Mary's, Ont.	Mar. 10
Mar. 14.	Sewers,	St. Paul, Minn.	Mar. 10
Mar. 14.	Supplying gas,	Blackwell's Island, N. Y.	Mar. 10
Mar. 14.	Cement sidewalks,	St. Paul, Minn.	Mar. 10
Mar. 14.	Macadamizing, etc.,	Wilmette, Ill.	Mar. 10
Mar. 14.	Grading, curbing, etc.,	Houston, Tex.	Mar. 10
Mar. 14.	Grading, etc.,	Muncie, Ind.	Feb. 17
Mar. 14.	Paving,	Atlantic City, N. J.	Mar. 3
Mar. 14.	Court house,	Troy, Ala.	Mar. 3
Mar. 15.	Water pipe (3,200 tons),	St. Louis, Mo.	Mar. 3
Mar. 15.	School building,	River Falls, Wis.	Mar. 3
Mar. 15.	School building,	Vinton, Ia.	Mar. 3
Mar. 15.	House of refuge,	Chatham, Ont.	Mar. 3
Mar. 15.	Court house,	Orange, Tex.	Mar. 3
Mar. 15.	Brick building,	Bridgeton, N. S.	Mar. 3
Mar. 15.	School building,	Spokane, Wash.	Feb. 17
Mar. 15.	Steel submerged water pipe,	Portland, Ore.	Feb. 3
	Advertised, Eng. News, Feb. 3 to Mar. 3.		
Mar. 15.	Electric light plant,	Sophia, Bulgaria	Feb. 10
Mar. 15.	Lighting (10 years),	Fort Smith, Ark.	Feb. 24
Mar. 15.	School building,	Wahpeton, N. Dak.	Feb. 24
Mar. 15.	Electric railway (6 miles),	Fort Smith, Ark.	Feb. 24
Mar. 15.	School building,	Dodge Center, Minn.	Feb. 24
Mar. 15.	Masonry piers, abutment,	Boston, Mass.	Mar. 10
Mar. 15.	Breakwater,	Summerside, P. E. I.	Mar. 10
Mar. 15.	Water pipe,	Everett, Mass.	Mar. 10
	Advertised, Engineering News, Mar. 10.		
Mar. 15.	Laying water pipe,	Waterbury, Conn.	Mar. 10
Mar. 15.	Asphalt walk,	Bridgeport, Conn.	Mar. 10
Mar. 15.	Maintaining buoys,	Buffalo, N. Y.	Mar. 10
Mar. 15.	Highway work,	Eastchester, N. Y.	Mar. 10
	Advertised, Engineering News, Mar. 10.		
Mar. 15.	Court house,	Giddings, Tex.	Mar. 10
Mar. 16.	Repairing bridge,	Aiken, S. C.	Mar. 10
Mar. 16.	Iron bridge,	Paulding, O.	Mar. 10
Mar. 16.	School building,	Westfield, Mass.	Mar. 10
Mar. 16.	Culvert	Redlands, Cal	Mar. 10
Mar. 16.	Sewers,	Cleveland, O.	Mar. 10
Mar. 16.	Water meters, supplies, etc.,	Richmond, Va.	Mar. 10
Mar. 16.	Brick paving,	Newport, Ky.	Mar. 10
	Advertised, Engineering News, Mar. 10.		
Mar. 16.	Pump (4,000,000 gall.),	Ogdensburg, N. Y.	Mar. 3
Mar. 17.	Paving (23,279 sq. yds.),	Ottawa, O.	Mar. 3
Mar. 17.	Electric lighting (10 yrs.),	Hartwell, O.	Mar. 10
Mar. 17.	School building,	Delhi, O.	Mar. 10
Mar. 17.	Water pipe,	Sandusky, O.	Mar. 10
Mar. 17.	Building work,	New York	Mar. 10
Mar. 18.	Paving, etc.,	Pittsburg, Pa.	Mar. 10
Mar. 18.	Sewers,	Pittsburg, Pa.	Mar. 10
Mar. 18.	Brick paving, etc.,	Cincinnati, O.	Feb. 24
Mar. 18.	River improvements,	Calcasieu River, La.	Feb. 17
Mar. 18.	Outlet sewer,	Cleveland, O.	Mar. 3
	Advertised, Engineering News, Mar. 3.		
Mar. 19.	Hospital building,	New Orleans, La.	Mar. 3
Mar. 19.	Hospital building,	Ukiah, Cal.	Feb. 24
Mar. 19.	24-in. sewer,	Lima, O.	Feb. 24
Mar. 20.	Water refunding bonds,	Fayetteville, Ark.	Feb. 17
	Advertised, Eng. News, Feb. 17 and 24.		
Mar. 21.	Court house,	Nashville, Ga.	Feb. 17
Mar. 21.	Repairing piers,	Muskegon, Mich.	Feb. 24
	Advertised, Eng. News, Feb. 24 to Mar. 17.		
Mar. 21.	Purification plant,	Henderson, N. C.	Mar. 3
	Advertised, Eng. News, Mar. 3 to 17.		
Mar. 21.	Street bonds ($35,000),	Wapakoneta, O.	Mar. 3
Mar. 21.	Pipe sewers,	Toledo, O.	Mar. 10
Mar. 21.	Electric power,	New York, N. Y.	Mar. 10
Mar. 22.	Electric lighting, etc.,	White Plains, N. Y.	Mar. 10
Mar. 22.	Ditch (10 miles),	Princeton, Ind.	Mar. 10
Mar. 22.	Steel bridge,	Olean, N. Y.	Mar. 10
	Advertised, Eng. News, Mar. 10 and 17.		
Mar. 22.	Water franchise, etc.,	Utica, Ill.	Feb. 24
	Advertised, Eng. News, Feb. 24 and Mar. 3.		
Mar. 22.	Water-works,	Greenwood, S. C.	Feb. 24
	Advertised, Engineering News, Feb. 24.		
Mar. 22.	Electric light franchise,	Utica, Ill.	Feb. 24
	Advertised, Eng. News, Feb. 24 and Mar. 3.		
Mar. 22.	Electric lights,	Greenwood, S. C.	Feb. 24
	Advertised, Engineering News, Feb. 24.		
Mar. 23.	Stone and cement,	Fort Hancock, N. J.	Feb. 24
	Advertised, Eng. News, Feb. 24 to Mar. 17.		
Mar. 23.	Light-house dwelling,	Philadelphia, Pa.	Feb. 24
	Advertised, Eng. News, Feb. 24 and Mar. 3.		
Mar. 23.	Engine house,	Oakland, Cal.	Mar. 10
Mar. 23.	School building,	Springfield, Mass.	Mar. 10
Mar. 23.	Paving,	Binghamton, N. Y.	Mar. 10
	Advertised, Eng. News, Mar. 10 and 17.		
Mar. 24.	Railway,	Dublin, Ireland	Mar. 10
Mar. 24.	Water pipe,	Norwood, O.	Mar. 10
Mar. 24.	Sewage precipitation tanks,	Providence, R.I.	Feb. 24
	Advertised, Eng. News, Feb. 24 to Mar. 17.		
Mar. 24.	Electric light plant,	Plum Island, N. Y.	Feb. 24
	Advertised, Eng. News, Feb. 24 to Mar. 17.		
Mar. 25.	School building,	Mondamin, Ia.	Feb. 17
Mar. 25.	Transmission line poles,	Seattle, Wash.	Mar. 10
Mar. 26.	Pipe sewers,	Boston, Mass.	Mar. 10
Mar. 26.	Pile protection,	Cincinnati, O.	Mar. 3
Mar. 26.	Steam pumps (2),	St. Louis, Mo.	Feb. 24
	Advertised, Eng. News, Feb. 24 to Mar. 17.		
Mar. 28.	Water-works,	Holly Springs, Miss.	Feb. 17
	Advertised, Eng. News, Feb. 17 and 24.		
Mar. 28.	Electric light plant,	Holly Springs, Miss.	Feb. 17
	Advertised, Eng. News, Feb. 17 and 24.		
Mar. 28.	Wharf, etc.,	Fort Barrancas, Fla.	Mar. 3
	Advertised, Eng. News, Mar. 3 to 24.		
Mar. 28.	Court house,	Decatur, Ga.	Mar. 10
Mar. 28.	Brick or block paving,	Toledo, O.	Mar. 10
Mar. 28.	Macadamizing,	Oshkosh, Wis.	Mar. 10
Mar. 29.	Track elevation,	Jersey City, N. J.	Mar. 10
	Advertised, Eng. News, Mar. 10 to 24.		
Mar. 29.	Electrical machinery, etc.,	Washington, D.C.	Mar. 10
Mar. 29.	Trunk sewers,	Cincinnati, O.	Mar. 10
Mar. 29.	County roads (30 miles),	Indianapolis, Ind.	Mar. 10
Mar. 30.	Sewers,	Glenville, O.	Mar. 3
Mar. 30.	Paving,	Wheeling, W. Va.	Mar. 3
Mar. 30.	Repairing pier,	Charlevoix, Mich.	Mar. 3
	Advertised, Eng. News, Mar. 3 to 24.		
Mar. 30.	Sewers,	Cleveland, O.	Mar. 10
Mar 31.	Transmission line franchse,	Los Angeles, Cal.	Mar. 10
Mar. 31.	Cement,	Portland, Me.	Mar. 10
	Advertised, Eng. News, Mar. 10 to 24.		
Mar. 31.	Removing wreck,	Portland, Me.	Mar. 10
	Advertised, Eng. News, Mar. 10 to 24.		
Mar. 31.	Sewerage system,	Newport News, Va.	Mar. 10
	Advertised, Eng. News, Mar. 10 to 24.		
Mar. 31.	Pipe sewers,	Paterson, N. J.	Mar. 3
Apr. 1.	Odd Fellows' home,	Alton, Ill.	Mar. 3
Apr. 1.	Superstructure, etc.,	Portland, Ore.	Mar. 3
Apr. 1.	Water pipe (3,116 tons),	St. John, N. B.	Feb. 17
Apr. 1.	Boiler plant, heating, etc.,	Baltimore, Md.	Feb. 24
Apr. 1.	Water pipe (12,000 ft.),	Seneca Falls, N. Y.	Mar. 10
	Advertised, Engineering News, Mar. 10.		
Apr. 1.	Water-works,	Palmyra, N. Y.	Mar. 10
	Advertised, Engineering News, Mar. 10.		
Apr. 2.	School building,	Brandon, Minn.	Feb. 3
Apr. 2.	Dipper dredge,	Chattanooga, Tenn.	Mar. 3
	Advertised, Eng. News, Mar. 3 to 24.		
Apr. 2.	Electric lighting,	Union City, Ind.	Mar. 3
Apr. 4.	Structural work,	Chicago, Ill.	Mar. 3
	Advertised, Eng. News, Mar. 3 to 17.		
Apr. 4.	Boiler and pump,	Fargo, N. Dak.	Mar. 3
Apr. 4.	Wharf, franchise,	Summerland, Cal.	Jan. 27
Apr. 4.	Sewer bonds ($65,000),	Santa Ana, Cal.	Feb. 24
Apr. 4.	Court house,	Jonesboro, Ga.	Mar. 10
Apr. 4.	Gas or electric lighting,	Lawrenceburg, Ind.	Mar. 10
Apr. 5.	Lighting bonds,	Wilmington, O.	Mar. 10
Apr. 5.	County bridges,	Dakotah, Ia.	Feb. 17
Apr. 6.	River work, etc.,	Chicago, Ill.	Feb. 17
	Advertised, Eng. News, Feb. 17 to Mar. 10.		
Apr. 6.	Channel work, etc.,	Chicago, Ill.	Feb. 10
Apr. 7.	Bridge (150-ft. span),	Kalama, Wash.	Feb. 17
Apr. 9.	Ledge excavation,	Rockland Harbor, Me.	Mar. 10
	Advertised, Eng. News, Mar. 10 to 31.		
Apr. 9.	Dredging,	Rockland Harbor, Me.	Mar. 10
	Advertised, Eng. News, Mar. 10 to 31.		
Apr. 11.	Highway bridges (2),	Chatham, Va.	Mar. 3
Apr. 15.	Lock and approaches,	New Orleans, La.	Mar. 10
	Advertised, Eng. News, Feb. 17 to Mar. 10.		
Apr. 20.	Water-works,	Auburn, Ind.	Mar. 10
Apr. 30.	Town hall,	Singapore, S. S.	Jan. 13
May 1.	Plans for sewage disposal,	Belper, Eng.	Dec. 16
May 3.	Steel cells (4),	Visalia, Cal.	Mar. 3
May 11.	County bridge,	Gonzalez, Tex.	Mar. 3
June 1.	Electric lighting (10 yrs.),	New Orleans, La.	Feb. 17
June 1.	Electric railway,	Zurich, Switzerland	Mar. 10
July 1	Water power,	Madras India	Oct. 28
No date.	Electric lighting,	Charlotte, Mich.	Mar. 10
"	College building,	Iowa City, Ia.	Mar. 10
"	Sewerage system, etc.,	Chamberlain, S.Dak.	Mar. 10
"	Sewerage system,	Salem, Ore.	Mar. 10
"	Gas works supplies,	San Francisco, Cal.	Mar. 10

RAILWAYS.

BALTIMORE & OHIO.—This company has purchased 10,000 tons of 80-lb. steel rails for the lines west of the Ohio River, which will be divided between the Central Ohio, the Chicago and the Lake Erie divisions, and will make that portion of the system equal to the lines east of the Ohio, which are now being rapidly placed in the best condition. About 15,000 tons of the 40,000 bought last summer for the main line will be placed in the tracks this spring, thus giving this line new rail from the Ohio River to tidewater. W. T. Manning, Ch. Engr., Baltimore, Md.

BEAVER CREEK.—Reports state that this company will extend its line for a distance of ten miles into the timber region. The railway runs at present between Jersey Shore and Mahaffy, Pa., and with its several branches is about 192 miles in length. Engr., J. B. McIntyre, Jersey Shore, Pa.

BRECKENRIDGE, DILLON & NORTHERN.—This company has been organized in Colorado, with a capital stock of $100,000, to build a railway up the Valley of the Blue River, with branches up the Swan River to Montezuma and Hot Sulphur. It is said that the company has purchased from the commissioners of Summit county the old grade and right of way of the Rio Grande between Breckenridge and Dillon. Work will probably begin within 60 days. The incorporators are: Robert W. Foote, D. W. Fall, J. P. Looney, W. H. Frye and W. M. Clark, all of Breckenridge, Colo.

CHICAGO, ROCK ISLAND & PACIFIC.—W. K. McFarlin, Supt. Maintenance and Construction, Davenport, Ia., writes us that the Flick & Johnston Construction Co., of Davenport, has the contract for 40 miles of grading for double track to be laid on the portion of this railway between Davenport and West Liberty, as stated in our last issue. E. L. Johnson, of Davenport, also writes us that the work will be begun as soon as the frost is out of the ground, and it will be completed by Sept. 15. The railway company will put in concrete and stone masonry and plate girders in place of culverts and bridges.

CHIHUAHUA & PACIFIC.—The Nassau Construction Co., of New York, is said to have been awarded the contract for the construction of a steam railway for this company from Chihuahua, Mexico, to the Pacific coast, a distance of 600 kilos. (about 373 miles). Under the terms of the contract, 120 miles would have to be completed by Nov. 1. The railway will be a single track standard-gage line, with 60-lb. steel rails. The Nassau Construction Co. was organized in 1896 by Col. G. B. M. Harvey, and did a part of the underground electric work of the Metropolitan St. Ry. Further information regarding the proposed railway may be found in our issue of Dec. 23, 1897. Pres., Almeric H. Paget, 80 Broadway, New York; Vice-Pres., Enrique C. Creel, Chihuahua; Ch. Engr., Edward S. Safford.

CHOCTAW, OKLAHOMA & GULF.—F. A. Mellor, Ch. Engr., South McAlester, Ind. Ter., informs us that J. W. Maney & Co., of El Reno, Okla., was awarded the contract, March 1, for building 25 miles of railway for this company from Fort Reno to Bridgeport, Okla., as stated in our issue of Feb. 24. The other bidders were: J. H. McCarthy & Co., Little Rock, Ark.; St. Joseph Construction Co., St. Joseph, Mo.; the Bracey-Wellss Construction Co., Chicago, Ill.; L. J. Smith, Kansas City, Mo.; R. L. Van Zant, St. Louis, Mo.; D. J. McDonald, Kansas City, Mo.; Sparr-Stubbs Construction Co., Lawrence, Kan.

COLORADO & NORTHWESTERN.—Reports state that grading has been completed for this proposed railway from Boulder to Ward, Colo., a distance of about 25 miles. I. L. Frankenberger, Ch. Engr., Boulder, Colo.

COLUMBUS, FULTON & NORTHERN.—Newman Cayce, Pres., Columbus, Miss., informs us that most of the surveys for this proposed railway have been made and the rights of way secured. No contracts have yet been awarded. When completed the line will extend from Columbus, Miss., to Lexington, Tenn., via Aberdeen, Amory, Fulton and Savannah. Secy., J. T. Senter, Columbus.

DEEPWATER.—M. N. Moorman, Jr., & Co., of Lynchburg, Va., inform us that they have no new work under construction on this railway between Deepwater and Glen Jean, Va., as stated in current reports. The work on the Loup Creek & Deepwater R. R. was completed some time before January.

DELAWARE VALLEY, HUDSON AND LEHIGH.—J. B. Lung, Pres., 382 Marion St., Brooklyn, N. Y., writes us that the survey for this new line is nearly completed and the rights of way partly secured. Bonds have been issued to enable the company to build, but they have not yet been placed. The proposed route is from Saylorsburg to Matamoras, Pa., via Stroudsburg, Bushkill and Milford, a distance of 55 miles. S. H. Kupp, Ch. Engr., Stroudsburg, Pa.

DENTON, DECATUR & WESTERN.—This company was incorporated in Texas, Feb. 25, with a capital stock of $100,000, to build and operate a standard gage railway from Denton to Bridgeport, via Decatur, Tex., a distance of 35 miles.

DES ARC & NORTHERN—Reports state that grading has been completed on this proposed railway, from Des Arc to Higginson, Ark., a distance of 25 miles, and that 12 miles have already been constructed. This company was incorporated in Arkansas, Aug. 27, with a capital stock of $50,000. Pres., George O. Griffith, Bald Knob, Ark.

DULUTH & IRON RANGE.—Grading on this railway, between Waldo, Minn., and the Cloquet River, will be completed by about May 1, according to reports. Work is being prosecuted rapidly. J. L. Greatsinger, Pres. and Gen. Mgr., Duluth, Minn.

EAGLE VALLEY & BAKER.—Press reports state that this company has been incorporated in Oregon, with a capital stock of $2,500,000, to build a broad gage railway from Baker City to the Seven Devils Mining Camp in Idaho. The incorporators are, Cato Johns, H. W. Dwight and Robert Dickson, of Baker City, Ore.

ERIE.—Bids are asked until March 29 for certain work in connection with the elevation of the tracks of the Erie R. R. in this city, as stated in our advertising columns. C. W. Buckholz, Ch. Engr., 1401 Havemeyer Bldg., 26 Cortlandt St., New York.

GALLATIN.—This company has been incorporated in Washington, according to reports, with a capital stock of $1,000,000, to construct a railway from Three Forks in Gallatin county, at the junction of the Northern Pacific Ry. and the Montana & Southeastern Ry., to and along Dodge Creek, in Montana. Col. W. W. D. Turner, Pres. Le Roi Mining Co.; W. A. Ritchie and Frank H. Hall, the latter of Milwaukee, Wis., are said to be interested.

HUTCHINSON & SOUTHERN.—H. L. Jackson, Ch. Engr., Wichita, Kan., informs us that trains are now running into Blackwell, Okla., over the new line, and that extensions will soon be built east for a distance of 25 or 30 miles. Further information may be found in our issue of Jan. 20. Pres., W. A. Bradford, Jr., Hutchinson, Kan.

IRELAND.—Bids are asked by the secretary of the Londonderry & Lough Swilly Ry. Co., care of Secretary to the Commissioners of Public Works, Custom House, Dublin, Ireland, until March 24, for work on the proposed railway between Buncrana and Carndonagh, Donegal county. Further information may be obtained from J. Y. F. Cooke, C. E., St. Columbs, Londonderry, Ireland.

MEXICO.—Press reports state that the French syndicate which recently purchased the Inguaran copper mines in the State of Mechocan, Mexico, will immediately commence construction of a railway from Patzcuaro to the Pacific Coast, through the mineral districts in which the Inguaran mines are located. The syndicate is said to be capitalized at $7,000,000. The road which they will build is to be equipped with American track material and equipment.

MOUNDSVILLE & WHEELING.—This company has been incorporated in West Virginia, according to reports, with a capital stock of $200,000. It is proposed to construct a railway from Crow's Mills, Pa., to Wheeling, W. Va., through the coal fields of southern Pennsylvania. C. H. Weaver and G. S. McFadden, of Moundsville are interested.

MUSQUODOBOIT.—A bill has been introduced in the house of assembly of Nova Scotia to incorporate this railway company with a capital stock of $1,000,000. It is proposed to build from Windsor Junction easterly 40 miles to Parker's Corner, on the Sheet Harbor Road, through the Musquodoboit Valley; the bill also gives the power to extend the said railway to Halifax or Dartmouth, N. S., and also eastward to such a place as may be authorized by the governor in council. The railway must be commenced and be in course of construction within two years from passage of the act. Among those interested are, William Chisholm, Alexander Stephen and George L. Troop, of Halifax; Arthur C. Johnstone, Edward M. Walker and James Simmonds, of Dartsmouth.

NEBRASKA, KANSAS & GULF.—This company was incorporated in Nebraska, March 2, with a capital stock of $26,000,000, to build 1,100 miles of railway. The same company was incorporated in Kansas, January 29, as stated in our issue of Feb. 3. Since George B. Peck, general counsel of the Chicago, Milwaukee & St. Paul Ry., of Chicago, Ill., is one of the incorporators, it is presumed that the real promoter of the scheme is this company, and that it is simply a move on the part of this road to get a line to the Gulf to compete with the Kansas City, Pittsburg & Gulf. Reports also state that this means the building of a bridge over the Missouri River at the mouth of the Niobrara River, so as to make the line continuous with that of the Milwaukee in Northwestern Iowa.

NEWFOUNDLAND.—Press reports state that Sir Herbert Murray, Governor of Newfoundland, has signed a contract with W. G. Reid, the builder of the Northern & Western Government Ry., recently completed, whereby Mr. Reid is to build a railway across the island and to work the entire railway system of 650 miles for 50 years, receiving a subsidy of 2,500 acres of land for each mile. Mr. Reid pays $1,000,000 now, which will become $7,000,000 at the end of the period, when the colony will take the money and the contractor's representatives will take the railway. If he should default in carrying out the contract during the period both the money and the railway will be forfeited to the colony. Mr. Reid also purchases St. John's dock for $250,000 and the government telegraph lines for $125,000. He undertakes to build seven mail steamers to ply in the great bays, receiving a subsidy of $100,000 for 30 years. He secures certain coal areas, which he agrees to work, as also pulp and lumber mills and copper and other mines, being protected by a dollar duty to be imposed on imported coal. Furthermore, he contracts to build an electric railway in St. John's, and to pave the main streets of the city for $140,000.

ROME & CARROLLTON.—Reports state that C. B. Wilburn, Pres. Chattanooga, Rome & Southern Ry. Co., was appointed receiver for this company March 1. It is said that it will continue to be operated as a part of the system from Chattanooga, Tenn., to Griffin, Ga., via Rome and Cedartown.

SALUDA & JOHNSTON.—Col. W. S. Allen, Fruit Hill, S. C., informs us that this company has recently been chartered by the legislature of South Carolina, but that the incorporators have taken no action as yet looking to an organization.

SUMTER & WATEREE.—This company has been incorporated by the legislature of South Carolina to build a railway from Sumter to Middleton Junction, on the Camden branch of the South Carolina & Georgia R. R., a distance of 15½ miles. The incorporators are: James D. Blanding, Altamont Moses, R. I. Manning, R. D. Lee, Harry Ryttenberg, Neill O'Donnell, W. O. Cain and H. J. McLaurin.

STREET AND ELECTRIC RAILWAYS.

SOMERSWORTH, N. H.—It is reported that the Union St. Ry. Co. contemplates the erection of an electric power station near Central Park during the coming season.

WATERVILLE, ME.—It is reported that Levi Bushey & Son, of Waterville, have been awarded the contract for the erection of the new power house for the Waterville & Fairfield Electric Ry. Co. General Manager Hamblin may be addressed.

GRAFTON, MASS.—E. A. Howe, Town Clk., informs us that no definite action was taken by the selectmen of this town at the hearing on Feb. 25, on the application of the Worcester Consolidated St. Ry. Co., for a franchise to extend its system through Grafton, via Millbury. Pres., Chas. B. Pratt, Worcester, Mass.

SOUTHBRIDGE, MASS.—H. H. Morse, Supt. Southbridge & Sturbridge St. Ry. Co., Southbridge, informs us that the only work contemplated by this company for the coming season is the building of a spur 500 ft. in length, to connect its present line with the entrance to the American Optical Co.'s works. Pres., C. D. Paige.

WORCESTER, MASS.—H. Hobart Potter, Jr., and E. N. Sanderson, of New York; Chas. S. Clark, of Brookline, Mass.; Harold Parker, of Lancaster, Mass., and others are interested in the Worcester & Webster Electric St. Ry. Co., which is being organized to build a line to Webster, via Auburn and Oxford. Franchises will be applied for at once.

MERIDEN, CONN.—It is reported that the Meriden, Southington & Compounce Tramway Co. has begun to prepare the route for the building of its proposed electric railway. Surveys have been made in Southington, in the locality of the Milldale Station, for the new power-house, which, it is said, will be placed here. Work must be completed by August 1. Francis Atwater and John A. Hurley, of Meriden, are interested.

BUFFALO, N. Y.—The plans and specifications of the Buffalo Traction Co. for laying tracks in 28 streets, a distance of about 16 miles, have been approved by the council. The tracks will cross the railways at grade, using patent blocking devices. Pres., H. P. Bissell.

EASTWOOD, N.Y.—The Eastwood & East Syracuse R. R. Co. was incorporated, March 9, with a capital stock of $200,000, to operate an electric railway between Eastwood and East Syracuse. The incorporators are: A. J. Belden, J. A. Seeley, C. M. Warner, G. E. Warner, Edward Joy, A. P. Fowler, F. J. Webb, M. P. Pierce and C. S. Carroll, of Syracuse, N. Y.

MAMARONECK, N. Y.—The village authorities, March 3, granted to the Tarrytown, White Plains & Mamaroneck R. R. Co. a 100-year franchise to build a single track electric street railway from Mamaroneck to White Plains. The road is to be in operation on or before July 1, and will connect with a branch already in operation between White Plains and Tarrytown, forming a direct line from Long Island Sound to Hudson River.——The trustees have received a petition from the Huguenot Electric Ry. Co., asking for a franchise to construct a trolley line along the Boston Road through this village. A hearing will be given to the application on March 23. Pres., Jas. G. Duy, 100 Broadway, New York.

SOUTH GLENS FALLS, N. Y.—Press reports state that a syndicate of New York and Saratoga capitalists has purchased, at a cost of $60,000, the land in the vicinity of Hell Gate Rapids, on the upper Hudson, about seven miles above Glens Falls. The intention is to utilize the water power at that point as the motive power for a large electric plant. A dam and power house are to be erected and with the electricity generated therein a railway, to be known as the Saratoga Northern, running between Saratoga Springs and South Glens Falls, will be operated. This line will probably have branches to intermediate points and also to Glens Falls, Sandy Hill and Fort Edward.

DUNELLEN, N. J.—The borough council passed the ordinance, March 7, granting to the Brunswick Traction Co. the right of way through the borough, on condition that the company should macadamize the roadbed 8 ins. deep from curb to curb the entire length of the route through the town, and pay one-half of the necessary expenses of keeping the street in repair. It is said that the company will begin work April 1, and expects to have the line in operation by May.

FANWOOD, N. J.—The township committee has passed an ordinance granting to the Elizabeth & Plainfield Trolley Co. a franchise in perpetuity to build and operate an electric line through this place. It is expected that the company will begin work at once, and that the line to Plainfield will be completed at an early date.

PLAINFIELD, N. J.—Press reports state that certain New York capitalists have started a new movement to connect Plainfield with South Plainfield by an electric line that will not only carry passengers but will also bring freight and coal cars direct from the Lehigh Valley R. R. to Plainfield. The route will probably follow the course of Cedar Brook, running through or along the edge of the marshlands, a distance of two and a half miles. The freight yard would be in Arlington Ave., and the passenger terminus in Park Ave.

TRENTON, N. J.—Henry C. Moore, Pres. Trenton Passenger Ry. Co., informs us that the Ewing Passenger St. Ry., incorporated on February 25, will merely be an extension of the former company's line on Pennington Ave.

LOCK HAVEN, PA.—Press reports state that the Pennsylvania R. R. Co. will build a trolley line between Lock Haven and Sunbury, on the bed of the old canal, via Milton, Watsontown, Muncy, Halls, Williamsport and Jersey Shore.

SCHUYLKILL HAVEN, PA.—The Schuylkill Haven & Orwigsburg St. Ry. Co. was incorporated in Pennsylvania, March 5, with a capital stock of $60,000, with $1,200 paid in. It is proposed to build an electric railway between Schuylkill Haven and Orwigsburg. The incorporators are, Pres., Robt. S. Clymer, Woodbury, N. J.; Willis L. Bryant and R. Steen Martin, of Schuylkill Haven; John A. Pattee and John D. Rishell, of Philadelphia, Pa.

CUMBERLAND, MD.—The Cumberland & Frostburg Electric Passenger Ry. Co. has been incorporated to build an electric line from Cumberland to Frostburg, a distance of 12 miles. Incorporation papers have also been filed for the Frostburg & Lonaconing and the Lonaconing & Westernport Electric Passenger Ry. Cos. to build between the towns named, which are about 12 miles apart. The principal incorporators in all three companies are, John W. Burchinal and James E. Hooton, of Moundsville, W. Va., and the capital stock of each company is $50,000.

LYNCHBURG, VA.—Press reports state that the property and franchises of the Lynchburg Electric Co., including the street railway, were sold at public auction, Feb. 28, under authority of the United States District Court, for $31,500, to Walter S. Johnson, Pres. of the American Surety Co. of New York, representing the Southern National Bank, of New York, which holds $129,000 of the electric company's bonds.

BIRMINGHAM, ALA.—The North Birmingham St. R. R. Co. has petitioned the council for permission to change its line into an overhead trolley system. Work would begin at once. Secy., A. B. Johnson.

DELAWARE, O.—It is reported that B. W. Brown and F. M. Marriott bought the Delaware Electric St. Ry. March 5, at the receiver's sale, for $24,000. The road is said to have cost nearly $80,000.

TORONTO, O.—Edward J. McElvaine, of Allegheny, Pa., has made application to the village council, through H. H. Smith, for a franchise to operate an electric railway in Toronto. Mr. McElvaine is said to have recently purchased large tracts of lands in the southern part of the town, which he proposes selling as building lots.

SOUTH BEND, IND.—D. B. J. Schafer, Mayor, informs us that De Witt Dillworth and a Mr. Alexander, of Pittsburg, Pa., are said to have bought the South Bend electric railways and also the Mishawaka & South Bend Electric Ry., but that no papers have yet been filed, nor officers elected.

GRAND RAPIDS, MICH.—J. E. Rice, of this city, informs us that an electric railway will probably be built this spring into Grand Rapids, from the north. Nothing definite towards the raising of funds has yet been decided upon. If the line is built a bridge would have to be constructed.

SAGINAW, MICH.—The Suburban Ry. Co. has been organized in this city to build an electric railway from Saginaw to Frankenmuth, a distance of 14 miles. Rights of way are being obtained.

CHICAGO, ILL.—An ordinance has been introduced in the board of aldermen granting the Chicago, Milwaukee & St. Paul R. R. Co. permission to change its motive power on the Evanston division from steam to electricity or compressed air. D. J. Whittemore, Ch. Engr., Chicago, Ill.——The Chicago City Ry. Co. is contemplating the following extensions and improvements to its system within the present year, at an aggregate cost of $2,900,000, as follows: A change of the cable system in State St. south to 39th St. and in Wabash and Cottage Grove Aves. south to the same point to the underground electric system; the construction of 30 miles of new trolley line on the south side from 12th St. to 63d St., chiefly consisting of extentions of present lines; the building of an elevated road from 39th St. north to Van Buren St.; a change of the cable system from 39th St. south in Cottage Grove Ave. and State St., and along 55th St. to the overhead electric system. Pres., M. K. Bowen, 2020 State St.

EAST ST. LOUIS, ILL.—The East St. Louis Electric Ry. Co. is said to have decided to extend its lines to Madison, Granite City and all the towns north of East St. Louis. The line will pass down St. Clair Ave. and up the Brooklyn Road as far as the eastern limits of Brooklyn, the eastern limits of Venice, and then on to Madison and Granite City. Workmen have commenced to drive piles for the road across Cahokia Creek, on St. Clair Ave.

QUINCY, ILL.—The J. C. Hubinger Co., of Keokuk, Ia., is said to have applied to the council for a franchise to construct and operate an electric railway and power plant in this city.

BAY CITY, MICH.—It is reported that the Bay Cities Consolidated St. Ry. Co. will build a loop line in South Bay City as soon as the council has given its consent. This arrangement will enable the company to take care of the travel to the Alkali Company's plant, which is expected to be very large.

KANSAS CITY, MO.—It is reported that the Northeastern Electric Ry. Co. has decided to spend $100,000 in improving its system during the coming year. New track will be laid, a viaduct built and new rolling stock purchased. W. O. Hands, Gen. Mgr.——The directors of the Brooklyn Ave. Ry. Co. have determined to extend the present line and to change it from a cable to an electric railway. Pres., John H. Lucas.

CORSICANA, TEX.—A franchise was granted to M. M. Bright, of this city, and others, Feb. 22, to construct an electric railway in Corsicana to be about five miles in length. The Patton motor system will be adopted. Bids for construction will soon be received.

VANCOUVER, B. C.—Harry Abbot, of Vancouver; Wm. Wbyte, of Winnipeg, Manitoba; R. Marpole, of Vancouver, and G. McL. Brown, are said to have petitioned the legislature for the incorporation of the Mountain Tramway & Electric Co., to have power to construct and operate a ropeway, tramways, etc., and to construct a plant to generate and supply heat, light and electricity in British Columbia.

ZURICH, SWITZERLAND.—Bids will be received until June 1, according to press reports, for the construction of an additional plant for the Zurich Municipal Electric R. R. Such machinery and equipment has hitherto been supplied by German and French concerns.

ELECTRIC LIGHT AND POWER.

BATH, ME.—Local papers state that the power station of the Bath Gas & Electric Co. will be enlarged and 50% more power added. A 400-K-W. generator will be required. Pres., G. C. Moses.

NEW LONDON, N. H.—The New London Electric Co. is reported as making arrangements for the construction of its proposed plant this season.

PITTSFIELD, MASS.—The Pittsfield Electric Co. has decided to ask for permission to increase its capital stock from $100,000 to $125,000, and to issue $75,000 in bonds for building a new power station, 60 x 114 ft., and for extending the plant, according to reports. Asst. Mgr., W. A. Gardener.

NEW LONDON, CONN.—Maj. Smith S. Leach, U. S. Engr., opened the following bids March 3 for electric lighting and power installation at Great Gull Island, as advertised in Engineering News:

McCoy Howard Eng. Co., 106 E. German St., Balto.	[1]$5,290
N. J. Fdry. & Mach. Co., 26 Cortlandt St., N. Y.	[3]3,000
De La Vergne Refrigerating Mach. Co., New York	[2]2,410
Westinghouse, Church, Kerr & Co., N. Y.	$2,100 to [3]3,068
Randall P. Barron, New York	[3]3,285
Sprague Electric Co., 22 Broad St., N. Y.	[2]2,941

[1] Recommended for acceptance. [2] Electrical apparatus only. [3] Engine and belt only. [4] Bid for gasoline engine only.

COXSACKIE, N. Y.—Jas. G. Newbury has been awarded the contract for lighting this place with 40 arc lights at $2,500 a year for five years. The plant must be completed by Aug. 1.

GLENS FALLS, N.Y.—Press reports state that it is proposed to develop the water power of Hell Gate Rapids on the Hudson River, seven miles above this place. It is thought that about 8,000 HP. can be secured. E. N. Sanderson, of Fort Edward, N. Y., and parties from Saratoga are interested.

HANNAWA FALLS, N. Y.—E. A. Merritt and Ogden Tappin are reported as considering the question of building a power plant at the falls.

LOCKPORT, N. Y.—Senator Ellsworth will introduce a bill in the legislature providing for the purchase of a municipal lighting plant.

NEW YORK, N. Y.—Bids are asked until March 14 for keeping in repair and inspecting semi-monthly the complete electrical bell, annunciator and telephone system of Bellevue Hospital for the year 1898. J. W. Keller, Pres. Dept. Public Charities, 66 Third Ave.

NEW YORK, N. Y.—Bids are asked by the department of public charities, 66 Third Ave., until March 21 for furnishing the electric current necessary to supply the electric lights of Bellevue Hospital. J. W. Keller, Pres.

PIKE, N. Y.—Wm Powers, the owner of the proposed plant, informs us that bids for constructing it will be received about April 1. The plant will have a Leffel wheel, already purchased, and boiler, engine, wire, etc., 10 arc lights of 1,200 c. p., and 40 incandescent lights of 16 c. p.; estimated cost, $2,500. Des. Engr., Benj. A. Stone, Buffalo.

SCOTTSVILLE, N. Y.—Work will probably soon be begun on the proposed plant for which a company has been organized. Mgr., Isaac Van Hooser.

SPENCER, N. Y.—The question of building a plant and water-works is being considered, according to reports.

WEST TROY, N. Y.—J. M. Day, Cy. Clk., informs us that Watervliet voted March 2 in favor of issuing $16,000 in bonds for improving the plant. The improvements, it is stated, will include engine, boiler and shafting, $8,500; two arc dynamos, $2,800; 60 double carbon brush lamps, $1,250; 50 poles and five miles of wire, $850; switchboard furnishing at plant, $400; incandescent dynamo and wiring public buildings, $200.

WHITE PLAINS, N. Y.—Bids are asked until March 22 for lighting the streets for a term of three years from November 1, upon the following propositions: First proposition.—To furnish 75 arc lights of 1,200 c. p. and 100 gas lights of 20 c. p. All-night lighting. Second proposition.—To furnish 50 arc lights of 1,200 c. p. and 160 incandescent lights of 20 c. p. All-night lighting. Third proposition.—To furnish 400 gas lights of 20 c. p. All-night lighting. Fourth proposition.—To furnish 400 incandescent lights of 20 c. p. All-night lighting. S. C. Miller, Pres. Bd. Trustees; W. B. Sutherland, Village Clk.

ALLEGHENY, PA.—We are informed that the board of inspectors of the Western Penitentiary has awarded the contract for engines for the electric plant, advertised in Engineering News, to the Weston Engine Co., Painted Post, N. Y.; for generators and switchboard to the Westinghouse Electric & Mfg. Co., Pittsburg, Pa., and for storage batteries to the Electric Storage Battery Co., Philadelphia. All other bids for material were not approved by the board, and the goods required will be purchased in the open market. Edward S. Wright, Warden.

LANCASTER, PA.—The Lancaster Electric Light, Heat & Power Co., which has the contract for lighting the streets for the ensuing five years, and which is erecting an additional plant, has just purchased a site in the business part of the city for a sub-station. The company will erect a building, into which all of the wires from its Slackwater and Rock Hill power plants, on the Conestoga Creek, will be run, and from which direct currents will be issued to various points. The company proposes lighting the villages about Lancaster and the Millersville State Normal School, as well as establishing a commercial system, according to reports.

LEBANON, PA.—Mayor Weimer has vetoed the ordinance appropriating $12,000 for the reconstruction and improvement of the city arc light plant.

HAGERSTOWN, MD.—Press reports state that the county commissioners have granted Powell Evans, Hagerstown, permission to erect poles and string wires from Weverton, on the Potomac River, to Hagerstown, Williamsport, Waynesboro, Greencastle, Harper's Ferry, Shepherdstown, Boonsboro, and Sharpsburg, and to towns in Frederick county, for the purpose of supplying electric power to those places from a power plant to be built at Weverton.

WASHINGTON, D. C.—Bids are asked until March 27 for supplying the electrical machinery for the experimental model basin at the navy yard, etc. Edwin Stewart, Paymaster-Gen., U. S. N., Washington.

BAMBERG, S. C.—J. A. Byrd, Treas., writes us that it has been decided not to put in a plant at present, as has been reported.

GREENSBORO, ALA.—Estimates, etc., are wanted by Louis V. Massey for a plant in connection with the waterworks, according to reports.

HARRIMAN, TENN.—D. W. Thomas, Cy. Clk., writes us that bids will probably be asked in a few days for constructing the proposed incandescent light plant, to cost about $5,000. Mayor, J. W. Scott; Cy. Engr., Willard Griffith.

MEMPHIS, TENN.—Bids are asked by the fire and police commissioners until March 10 for lighting public buildings and 400 street lamps, with gas; for lighting public buildings and public streets with electricity; for lighting public streets with gasoline or vapor gas.

MOUNT PLEASANT, TENN.—A. L. Lanier writes us that the contract for building the proposed plant will be let early in the spring; estimated cost, $1,000. It will have three arc and 200 incandescent lights. The power will be furnished from the mill. Stockholders are wanted.

CADIZ, KY.—E. N. Beebe, Elec. Engr., Hopkinsville, Ky., is reported as considering the question of locating a plant in this place.

ELIZABETHTOWN, KY.—A. L. Wintersmith, Mayor, writes us that nothing has been done towards the proposed plant on account of the lack of funds.

BRIDGEPORT, O.—Col. Samuel Mooney, Pres. Bellaire, Zanesville & Cincinnati R. R. Co., has leased 3,000 acres of coal land in the southern part of this county for a Columbus syndicate, and it is their intention to open three mines and equip them with electrical machinery.

HARTWELL, O.—Bids are asked until March 17 for lighting this place by electricity for 10 years, according to reports. Population (1890), 1,503. T. H. Marpe, Clk.

IRONTON, O.—E. F. Taylor, Mayor, writes us that the committee which is considering the question of building a plant, to cost $20,000, consists of D. C. Wilson, Chn.; E. Merrill and W. A. Murdock.

WELLINGTON, O.—This place will purchase the plant of the Warwick Electric Light Co. and make extensions to it, and will also build water-works. At the election, Jan. 29, this place voted to issue $30,000 in bonds for the improvements. Mayor, G. L. Couch; Clk., F. A. Chapman.

WILMINGTON, O.—Bids are asked by the city clerk until April 5 for the purchase of $10,000 of 5% electric lighting bonds, according to reports.

NEW CARLISLE, IND.—The town board is reported to have asked for bids for furnishing a plant of 20 street lights, etc.

VEEDERSBURG, IND.—C. A. Ellis, Cy. Engr. of Kansas City, Kan., writes us that work on the proposed plant and water-works, noted in our issue of last week, will begin March 10. Estimated cost, $26,500.

CHARLOTTE, MICH.—Bids are asked by the city clerk for lighting this place for a number of years. Population (1890), 3,900. Mayor Bennett may be addressed.

LYONS, MICH.—We are informed that estimates are being secured for a plant of 12 arc and 500 incandescent lights before submitting the question to the people Mar. 14.

PLAINWELL, MICH.—A municipal plant is proposed, according to reports. The plant will be operated by water power.

RICHMOND, MICH.—The question of building a plant, to cost about $9,000, will be voted upon March 14, according to reports. F. W. Burke, Clk.

KENNEY, ILL.—The village board has authorized the construction of an electric light plant, the cost not to exceed $5,000.

APPLETON, WIS.—Press reports state as follows: The Appleton Electric Light & Power Co. is improving its plant. The old wheels are to be taken out and in their place will be substituted two 35-in. wheels in an iron case. These wheels will develop about 200 HP. An increased flow of water will be secured by deepening the tailrace about 4 ft. The increase in power is necessitated because the plant is to furnish power for the new electric interurban railway from this city to Neenah by way of the Lake Winnebago resorts.

DODGEVILLE, WIS.—Wm. H. Earl, 6924 South Ada St., Chicago, is reported to have been granted a 10-year franchise.

SHELL LAKE, WIS.—The D. & D. Mfg. Co., 11th Ave. and Fourth St., Minneapolis, is reported to have submitted a proposition to light this town.

SPOONER, WIS.—It is stated that H. Porter, of Oakland, Jefferson county; Judge E. W. Keyes, of Madison, have purchased the water power at Spooner Lake, together with a large tract of land. The purchase includes a dam and good water power.

ST. PAUL, MINN.—Date, plans, etc., are being considered for the proposed municipal plant of 400 arc lights of 2,000 c. p. Chn. Com., G. Willius, Jr., Phoenix Bldg., St. Paul.

BOONE, IA.—Jesse L. Hull, Cy. Clk., writes us that the question of building a plant will be voted upon March 28. If the vote is favorable then the council will probably act in the matter. J. M. Goodson, Mayor.

DES MOINES, IA.—The question of building a municipal plant will be voted upon at the election, March 28. John MacVicar, Mayor.

GLADBROOK, IA.—The question of building a plant is being considered, according to reports.

SELMA, IA.—It is reported that estimates for an electric or gas plant are wanted by Jefferson Davis.

FULLERTON, NEB.—H. E. Wilson, Cy. Clk., writes us that parties have been looking over the ground with a view of putting in a plant, but have not yet submitted a proposition. Population (1897), 1,000.

CASPER, WYO.—It is stated that the council has extended the contract 30 days from Feb. 22 with Morgan Maghee, in which to file his bond for putting in the plant which is to be erected by the council.

HANNIBAL, MO.—We are informed that the new franchise of the Hannibal St. Ry. Co. includes the privilege of supplying heat and power throughout the city. It is proposed to use the exhaust steam from the railway plant largely, for the purpose of heat. G. Whitefield Chance, Ch. Engr., 915 Rothschild Bldg., Philadelphia.

HOUSTON, TEX.—Blake Dupree, Receiver Citizens' Electric Light & Power Co., is reported to have recommended a number of improvements to the plant at a cost of $20,000.

CANON CITY, COLO.—Press reports state as follows: The site for the power plant has been selected and the ground work started. Contracts are being awarded for the construction of the building, which will be of the following dimensions: Main building, 62 × 174 ft.; wing, 52 × 100 ft. The equipment will be ten 250-HP. boilers, two 1,000-HP. Corliss condensing engines and two generators of 600-K-W. About 1,800,000 gallons of water will be required every 12 hours to supply the boilers and will be transmitted from Four-Mile Creek, through 3,000 ft. of 22-in. steel pipe. The buildings will be of stone and brick, with steel truss roof, surmounted with a 120-ft. self-supporting steel smokestack, which will be 17 ft. in diameter at the base and 9 ft. at the top. Four transformer stations of 10,000 volts each will be established along the line. Mr. Cook has one of the contracts for grading. D. N. Donaldson, Pres. Colorado Electric Power Co., may be addressed.

SEATTLE, WASH.—Bids are asked by the Snoqualmie Falls Power Co., Washington Bldg., Seattle, until March 25, for furnishing 36 to 40-ft. poles for the transmission line. Wm. T. Baker, Bd. of Trade, Chicago, Ill., may be addressed.

TACOMA, WASH.—Commissioner of Public Works Doherty has submitted to the council an estimate of the cost of the proposed extension of the city plant to South Tacoma (Edison), to cost about $2,800. The proposed extension of the water service to outside additions is estimated to cost about $1,200. City Engineer Davis may be addressed.

LONGCREEK, ORE.—A company is reported as being organized to put in a plant.

HEALDSBURG, CAL.—An election will be held March 28 to vote on the question of issuing $80,000 of 5% bonds for a municipal plant and water-works. W. H. Barnes, Pres. Bd. Trustees; C. H. Pond, Clk.

LOS ANGELES, CAL.—It is stated that the contract for the transmission of power of the river running through Santa Ana Canyon to Los Angeles and Pasadena, 81 miles, has been closed between the Southern California Power Co. and the Central Electric Co. Water will be taken from the river through a canal, flume and tunnel, when it will be led into a pipe 3,200 ft. long.——Bids are asked until March 31 for the purchase of a transmission line franchise, for 50 years, in this county. T. E. Newlin, County Clk.

MARYSVILLE, CAL.—M. A. Nurse and P. M. McGraw are reported to have located two water claims on the Yuba River, near the Narrows, for the purpose of operating machinery and for generating electricity for operating a railway, etc.

SANTA CRUZ, CAL.—We are informed that surveys have been made for dams, flumes, etc., for the proposed plant of the Electric Improvement Co., of San Jose, Cal. There will be required steel for dams, generators, water-wheels and 180 miles of wire, with high voltage insulators; estimated cost, $250,000. Bids will be received in about 60 days. Elec. Engr., Sidney Sprout, 421 Market St., San Francisco, Cal.

SONOMA, CAL.—Bids are asked until April 1 for constructing a plant for the Sonoma Electric Light Co. J. Fochetti, Supt., writes us that the plant will have 250 incandescent lights of 16 and 32 c. p.; will be operated by a gasoline engine; estimated cost, $4,000. Des. Engr., C. F. Ryland, Mills Bldg., San Francisco, Cal.

TOOELE, UTAH.—The question of issuing $10,000 in bonds for a plant is being considered, according to reports.

CAMBELLTON, N. B.—The people are reported to have voted in favor of electric lighting.

MEXICO, MEX.—Press reports state as follows: H. S. Jacobs, mining engineer, is interested in the project of establishing a plant in the vicinity of this city, the water power to be secured in the state of Morelos. A site where 25,000 HP. can be obtained has been located. It is in the Amacuzac River, 65 miles from the city. Estimated cost, $2,000,000, Mexican money. It is stated that the electric light plant and many small manufacturing concerns have agreed to take power from the proposed plant as soon as it is put in operation.

SHANGHAI, CHINA.—Charles Mayne, Municipal Engineer, Kiangse Road, Shanghai, wishes to secure catalogues and information in regard to electrical machinery.

NEW COMPANIES.—Harvey Lake Electric Light, Heat & Power Co., Wilkesbarre, Pa.; $1,000.

Kentucky Electric Light Co., Ludlow, Ky.; $30,000.

Nescopeck Electric Light Co., Nescopeck, Pa.; $5,000.

Port Jervis Light & Power Co., Port Jervis, N. Y.; $50,000; William P. Richardson, C. J. Field, George A. Elston, C. J. Van Inwegen.

Jansens-Kil Electric Power Co., Hudson, N. Y.; $100,000; to develop and transmit power to Hudson; Wm. A. Harder, Jr., Philip M. Harder.

Bonanza Power & Land Co., Pocatello, Idaho, with branch at Butte, Mont.; $500,000; ex-Gov. John K. Rickards, Montana; J. J. Cusick, F. B. Thomas, Butte; J. J. Waldron, Shoshone, Idaho.

Interstate Canal & Power Co., Oxford, Idaho; $100,000; George C. Parkinson, Chester Call, D. D. Sullivan, F. H. Reddish, W. A. Hyde, W. F. Fisher, F. N. Woolley, Hyrum Jenson, B. F. Bingham.

Hempfield Electric Light, Heat & Power Co., Jeannette, Pa.; $10,000, with $1,000 paid in; W. F. Sadler, M. F. Thompson, Treas.; H. G. Beetem, Carlisle, Pa.; J. L. Kauffman, Harrisburg, Pa.

Jamestown Electric Light & Power Co., San Francisco, Cal.; $500,000; William A. Nevills, Tuolumne county, Cal.; John Ballard, Alameda, Cal.; W. H. Martin, S. F. W. Grant, Marin county; R. B. Carpenter, Los Angeles, Cal.

Warwick Valley Light & Power Co., Warwick, N. Y.; to operate in the towns of Warwick and Chester, Orange county; $25,000; George Whitman, Morris, Otsego county; Frank Barber, Helen Barber, Liberty, Sullivan county, N. Y.

Bolton Falls Electric Co., Waterbury, Vt.; $75,000; to supply Waterbury with electricity. The company intends to erect a power house and dam as soon as the weather permits. Turbine wheels having a capacity of 3,000 HP. will be put in. The river at this point has a fall of 46 ft. Geo. H. Almon, Montpelier, Vt.; G. E. Moody, Waterbury, Vt.; C. L. McMahon, Stowe, Vt.

Queens Borough Electric Light & Power Co.; $250,000; to supply gas and electricity for lighting the streets and houses of New York city and of the counties of Kings, Queens and Suffolk; Van Wyck Rossiter, David H. Valentine, Royal C. Peabody, C. L. Rossiter, T. S. Williams, Brooklyn; Frank Macgovern, Manhattan; Joseph C. Biglin, Far Rockaway; Isaac M. Sutton, Flushing (L. I.), and J. Hobart Porter, Jr., Lawrence (L. I.).

BRIDGES.

SALEM, MASS.—The street committee will ask the council for an appropriation of $2,000 to repair the Union St. bridge.

BOSTON, MASS.—Bids are asked until March 15 for constructing the masonry piers and abutment of the bridge on Summer St. extension across Fort Point Channel. Wm. Jackson, Cy. Engr.

HARTFORD, CONN.—The following estimates for bridges have been submitted to the street board, according to reports: Park St. bridge, $25,000; Broad St. bridge, $8,000; Hamilton St. bridge, $17,700. C. H. Bunce, Cy. Engr.

WATERFORD, N. Y.—Reports state that a bill appropriating $5,000 has been presented to the legislature to construct a new bridge over the Champlain Canal to connect Saratoga Ave. with Dial City.

OLEAN, N. Y.—Bids are asked until March 22 for constructing a steel bridge, as stated in our advertising columns. Supt. Sts., E. E. Allen; Mayor, G. H. Strong.

ROCHESTER, N. Y.—We are informed that the following contracts were awarded March 7 by Geo. W. Aldridge, Supt. Pub. Wks., Albany: A steel bridge over the Erie Canal at Monroe Ave., Rochester, to B. P. Smith, Rochester, $25,494; steel bridge over Erie Canal at South Clinton St., Rochester, to the Rochester Bridge & Iron Works, Rochester, $15,862; new berme abutment at bridge No. 156, between Ilion and Frankfort, to John Twomey, Schenectady, at $4,935.

HACKENSACK, N. J.—Reports state that the Bergen County Traction Co. is about to build a bridge over the Overpeck River and construct a trestle a half mile long for the extension of its tracks to this place by way of Bogota.

HOBOKEN, N. J.—Senator Dealy, Hoboken, will introduce a bill in the legislature for the construction of a proposed viaduct to connect Hoboken with Jersey City Heights, to cost about $45,000.

SLATINGTON, PA.—A steel bridge is to be constructed by the county commissioners, Allentown, across Trout Creek, on Walnut St., to be 300 ft. long and 30 ft. wide.

MONTROSE, PA.—L. D. Benson, County Surv., Jackson, informs us that the question of the contemplated bridge at Forest City, stated in our last issue, has not yet been decided. The county commissioners will probably construct about four bridges this year. Jas. McKinney, Attorney, Forest City, may be addressed.

CUMBERLAND, MD.—W. G. Mellinger, Mayor, writes us that this city has about closed an agreement with West Virginia in which it proposes to build the substructure of the proposed bridge at Market St., to be 160 ft. long and having four spans.——Reports state that the county commissioners are arranging for the construction of six iron bridges over George's Creek, three at Midland and one near Potomac Mines, Ocean and Short Gap, respectively. Wm. J. Miller, Clk., writes us that the commissioners are not yet ready to ask for bids.

HYATTSVILLE, MD.—Arthur Cort, Clk. Town Comrs., informs us that an iron bridge is to be constructed between Hyattsville and Rodgers Land; estimated cost, $1,000. Address I. A. Blundon, Riverdale, Md.

KING WILLIAM, VA.—Press reports state that a bill has been passed authorizing the county supervisors to construct a bridge over the Pamunker River, near New Castle ferry.

MORGANTOWN, W. VA.—Reports state that it is proposed to construct a steel viaduct across the ravine between Morgantown and Sunnyside.

AIKEN, S. C.—Bids are asked until March 16 for repairing the bridge over Big Horse Creek, on the Augusta Road. T. P. Raborn, County Supervisor.

DADEVILLE, ALA.—The county commissioners have awarded a contract to the Southern Bridge Co., Birmingham, Ala., at about $5,500, for the construction of two iron bridges, each 190 ft. long, across Big Sandy Creek.

NEWTON, ALA.—A contract has been awarded to the Converse Bridge Co., Chattanooga, Tenn., to construct an iron bridge over the Choctawhatchee River, at $3,000.

COLUMBUS, O.—Reports state that the county commissioners have been authorized to issue bonds for constructing the following bridges: Decker bridge, over Little Walnut Creek, estimated cost, $7,200; at Cummins' Corner, $3,800; at Scofield, $2,000.

PAULDING, O.—Bids are asked until March 16 for constructing a 120-ft. span iron bridge across Flat Rock Creek, in Harrison township, according to reports. John Powers, Pres. Bd. County Comrs.

CINCINNATI, O.—The board of control has authorized the county commissioners to construct a bridge over Mill Creek, on the Riddle Road.

CANNELTON, IND.—The Toledo Bridge Co., Toledo, O., was awarded a contract, March 2, for constructing a 100-ft. span bridge, 14 ft. wide, on tubular foundation, over Buck Creek, in Perry township, at a cost of $2,000.

DETROIT, MICH.—The Union Bridge Co., of Detroit, has been incorporated by the Grand Trunk and Wabash Ry. Cos., with a capital stock of $2,000,000, to construct a railway bridge across the Detroit River.

GRAND RAPIDS, MICH.—J. E. Rice, Grand Rapids, informs us that an iron bridge, 103 ft. long, with six spans and 22 ft. wide, to have a capacity of 40,000 lbs. a sq. ft., will be constructed on steel tubular foundation over the Grand River, at North Park.

SAGINAW, MICH.—H. E. Terry, Cy. Engr., informs us that the following bids were received, Feb. 25, for constructing a bridge over the Saginaw River, at Court St., having a 160-ft. fixed span and a 218-ft. draw. The lowest bids were given in our issue of March 3:

Superstructure:

Pittsburg Bridge Co., Pittsburg, Pa.	$31,919
Lafayette Bridge Co., Lafayette, O.	31,411
Youngstown Bridge Co., Youngstown, O.	30,686
King Bridge Co., Cleveland, O.	30,615
Massillon Bridge Co., Massillon, O.	29,995
Groton Bridge & Mfg. Co., Groton, N. Y.	29,572
Wrought Iron Bridge Co., Canton, O.	29,500
Wisconsin Bridge & Iron Co., Milwaukee, Wis.	28,995
Owego Bridge Co., Owego, N. Y.	27,940
Detroit Bridge & Iron Works, Detroit, Mich.	27,794
Toledo Bridge Co., Toledo, O.	26,435
Milwaukee Bridge & Iron Works, Milwaukee	26,429

	Substructure.	Trestle approach.	Excavating, etc.
Toledo Bridge Co.	$19,249	$7,787	$9,515
Youngstown Bridge Co.	17,551	7,465	6,114
Qualmann & Heineman	16,337	....	....
John J. Granville	15,873	8,367	7,931
Hobson & Co.	10,278	....	....
Thos. Simmons, Saginaw	....	11,865	....
M. C. Heinemann, Saginaw	....	8,025	8,914
John Forster, Saginaw	....	....	7,566
John C. Davies	....	....	7,415
John C. Schultz	....	....	6,407
Peter Malcolm	....	....	6,364

CHICAGO, ILL.—It is reported that the finance committee will appropriate $175,000 for the construction of a new bascule bridge to replace the old structure at State St.

GREEN BAY, WIS.—Press reports state that Mayor Desnoyers has vetoed the resolution to submit to a vote a proposition to issue $19,000 in bonds to construct a new bridge over the East River and one at Walnut St.

OSHKOSH, WIS.—Reports state that a new iron bridge, to cost $4,000, will be built over Sawyer Creek.

DES MOINES, IA.—The board of public works is reported to have been directed to ask for bids for constructing a bridge across Four-Mile Creek.

FULLERTON, NEB.—Bids are asked until March 12 for constructing a combination bridge with an 80-ft. or 100-ft. span, according to reports. G. W. Ellsworth, County Clk.

ST. JOSEPH, MO.—Reports state that it is about decided to construct the proposed steel viaduct 200 ft. long at South Sixth St.; estimated cost, $20,000.

FOSSIL, ORE.—Wm. Holder and R. P. Orr are reported to have been appointed a committee to consider the cost of constructing a wooden truss bridge, 140 ft. long, across John Day River, estimated cost $20,000.

CALDWELL, IDAHO.—Reports state that petitions have been presented to the council asking for a bridge to be constructed across Indian Creek.

KENDRICK, IDAHO.—Bids will soon be asked by the council for constructing a temporary bridge across Bear Creek, according to reports.

ST. THOMAS, ONT.—We are informed that the following bids were received March 2 for constructing a bridge 228 ft. long over the Thames River. Jas. A. Bell, County Engr.:

Isaac Crouse, Ealing, Ont.	$4,570
Lang Anderson, Shedden, Ont.	3,900
John N. Gibb, Wallaceburg, Ont.	4,457
Lanceley Hardy, Exeter, Ont.	5,000
Wm. Reath, St. Thomas, Ont.	5,224
Tracey Bros., St. Mary's, Ont.	4,493

ST. MARY'S, ONT.—Bids are asked until March 14 for constructing a stone or steel bridge over Trout Creek on Water St., with a 97-ft. span and 16-ft. roadway. Geo. D. Lawrie, Chn. Bridge Com.

BUILDINGS.

MANCHESTER, N. H.—Plans have been prepared for an armory to be built on Lowell St. by the Blood estate, of which Frank P. Carpenter and Dr. L. M. French are the administrators; estimated cost, $50,000. Archs., Chickering & Connell, 1061 Elm St., Manchester.

BROCKTON, MASS.—Bids are being received, according to reports, for erecting the new church building for the Central M. E. Church, to cost about $65,000.

MALDEN, MASS.—The following bids have been accepted for the erection and completion of the proposed Glenwood School building: For general construction, F. G. Coburn & Co., Boston, $38,975; for heating and ventilating, C. & G. Walworth Co., of Boston, $4,156; for plumbing, Fredericks & Sullivan, of Malden, $2,190. Archs., Whitman & Hood, 62 Devonshire St., Boston, Mass.

SPRINGFIELD, MASS.—Bids are asked until March 23 for the erection of the Forest Park school building for this city; deposit, $6,000. C. E. Brown, Chn. City Property Com.

WALTHAM, MASS.—We are informed that the erection of a brick block, with some 60 ft. frontage on Moody St., is contemplated. Robt. A. Glancy, Building Contractor, Cushing St., is interested.

WESTFIELD, MASS.—Bids are asked by the board of education, until March 16, for the erection and completion, except the heating and ventilation, of an 8-room brick school building for this town. Secy., C. H. Abbe; Arch., A. W. Holton, Parks Block, Westfield.

WHITINSVILLE, MASS.—Norcross Bros., of Worcester, Mass, are said to have been awarded the contract for erecting a church building for the Whitinsville Congregational Church, at $88,754. Archs., Shepley, Rutan & Coolidge, Ames Bldg., Boston, Mass.

WORCESTER, MASS.—It is reported that plans are being prepared for a theatre building for R. C. Taylor, to replace the Front St. Opera House, recently destroyed by fire. Archs., Fuller, Delano & Frost, 452 Main St., Worcester.

ALBANY, N. Y.—Mr. McEwen has introduced a bill in the Legislature which provides for an appropriation of $400,000 for the purpose of acquiring a site for a state library building in Albany.

BROOKLYN, N. Y.—Plans have been completed, according to reports, for a 5-story brick and limestone store and loft building to be erected at 155 Hope St. for E. Malowanzyk, of 60 Eldridge St. Arch., M. J. Smallheiser, 789 Flushing Ave.

BUFFALO, N. Y.—W. A. Case & Son will build a 5-story brick store and warehouse to cost $30,000. Archs., Hand & Greenberg.——Michael Nellany will build a 3-story store and apartment building to cost $40,000. Arch., H. L. A. Jekel.——J. Clark White will build three modern residences, aggregating in cost $37,300. Arch., C. D. Swan, German Insurance Bldg.——S. W. Barrett will build a 4-story brick flat building on 7th St., to cost about $35,000.

NIAGARA FALLS, N. Y.—J. H. Finnel has been awarded the contract for building a new public school building in this city at $16,986.

NEW YORK, N.Y.—Bids are asked by the department of parks, The Arsenal, Central Park, until March 17, for furnishing and erecting all the materials necessary to erect and complete in the Botanical Gardens, in Bronx Park, the range of horticultural buildings, and other appurtenances; security required, $50,000.

NEW YORK, N. Y.—Plans are being prepared for a 5-story office building to be erected at 27 and 29 Beaver St., for the American Cotton Oil Co., of 46 Cedar St., to cost about $95,000. Archs., Trowbridge & Livingston, 287 4th Ave.——Plans have been filed by the Imperial Construction Co., 1133 Broadway, for a 10-story brick hotel at 50th St. and Columbus Ave., to cost $300,000. Archs., Buchanan & Deisler, 11 East 59th St.; by Mary E. Robinson, 647 West 142d St., for three 4-story brick flat buildings on Mott Ave., near 138th St., to cost $54,000. Archs., Charles Baxter & Sons, 2580 3d Ave.; by Manfred Vest, 167 East 65th St., for five 3-story brick dwellings on 118th St., near Lenox Ave., to cost $100,000. Arch., John C. Burns, 101 West 42d St.; by Dongan & Taylor, 440 West End Ave., for a 6-story brick flat building at 262 West 83d St., to cost $60,000. Arch., H. C. Stone, 72 West 71st St.; by Gaines & Roberts, 15 West 103d St., for three 5-story brick flat buildings on 136th St., east of Willis Ave., to cost $66,000. Arch., H. T. Howell, Tuxedo, N. Y., for a 6-story brick warehouse at 100 and 102 Gansevoort St., to cost $50,000. Arch., L. C. Holden, 1 Union Square; by Thomas Moloney for three 5-story brick flat buildings on 131st St., near Amsterdam Ave., to cost $63,000. Archs., Thorn & Wilson; by August Jacob, 527 West 149th St., for five 4-story brick tenement buildings on Gouverneur Place, east of Vanderbilt Ave., to cost $70,000. Arch., John Hauser, 1441 3d Ave.; by Sonn Bros. & Rothfeld, 386 Washington St., for two 2-story brick and stone warehouses at Columbus Ave. and 103d St., to cost $60,000. Arch., Franklin Baylies, Bible House; by Joseph H. McKennee, 1471 Broadway, for a 7-story brick and stone flat building at 661 and 663 Boulevard, to cost $75,000. Arch., A. A. Schuster; by St. Luke's Home, 89th St. and Madison Ave., for a 6-story brick and stone ladies' home at 114th St. and the Boulevard, to cost $250,000. Archs., Trowbridge & Livingston, 287 4th Ave.; by Wm. J. Casey, 1949 7th Ave., for four 4-story brick dwellings on 107th St., near West End Ave., to cost $80,000. Archs., Neville & Bagge, 217 West 125th St.——It is reported that Cooper & Wiegand, St. James Bldg., have been awarded the structural steel and iron contract for the apartment building to be erected by the Imperial Construction Co., at Columbus Ave. and 80th St.

WEST TROY, N. Y.—The taxpayers of Watervliet have voted to issue $53,000 in bonds for the erection of a new school building and repairing of the old buildings.

ATLANTIC CITY, N. J.—Bids are asked, according to reports, for the erection of a 5-story brick and frame hotel building to cost about $35,000. Contractors, M. P. Wells & Co., 13th and Walnut Sts., Philadelphia, Pa.; Arch., J. Harvey Shumway, Law Bldg., Atlantic City.

CAMDEN, N. J.—The board of architects appointed by the secretary of the treasury to consider plans and specifications for the public building to be erected in this city has selected those submitted by Rankin & Kellogg, 1024 Walnut St., Philadelphia, Pa. Estimated cost, $168,000.

BERWYN, PA.—The buildings on A. J. Cassatt's Chester Brook Stock Farm, near Berwyn, Pa., on the Philadelphia division of the Pennsylvania R. R., were almost completely destroyed by fire March 2; estimated loss, $60,000.

PHILADELPHIA, PA.—Charles McCaul has been awarded the contract for erecting the ferry house and passenger station at the foot of Chestnut St., on the Delaware Wharf, for the Reading Co., according to reports. Archs., Cope & Stewardson, 314 Walnut St.

GRAHAM, W. VA.—The Hotel Graham has been damaged by fire, causing a reported loss of about $80,000.

DECATUR, GA.—Bids are asked by Ordinary Ragsdale, until March 28, for erecting the new DeKalb county court house. Archs., Solucke & Stewart, 24½ Whitehall St., Atlanta, Ga.

JONESBORO, GA.—Bids are asked, until April 4, for the erection of a court house at this place. Address J. M. Defoor.

LEXINGTON, KY.—The fiscal court, Feb. 28, decided to accept the plans of Lehman & Schmitt, 619 Hickox Bldg., Cleveland, O., for the reconstruction of the court house. Estimated cost, $150,000.

DELHI, O.—Bids are asked by the board of education of Williams Special School District No. 2, Delhi township, until March 17, for the construction of a new school building. Pres., Charles Roebling; Archs., Samuel Hannaford & Sons, Hulbert Block, 6th and Vine Sts., Cincinnati, O.

DETROIT, MICH.—The following bids have been received by the supervising architect, Washington, D. C., for decorative painting in the U. S. Building in this city.

		Time.
Dean, Godfrey & Co., Detroit	$9,736	12 mos.
Prider & Schoeter, Detroit	9,800	5 "
John Gibson, Philadelphia, Pa.	16,761	3 "
" " "	12,321	3 "
" " "	11,800	3 "
O. J. Kover & Son, Ft. Wayne, Ind.	9,975	5 "
Max M. E. Von Mach, Detroit	12,950	6 "
J. T. Schneider, Atlanta, Ga.	7,300	130 days.
William Diedrich, Detroit	13,590	120 "
Fred. Branford & Co., Detroit	17,677	8 mos.
Joseph Roach, Detroit	12,753	9 "
Frank T. Madden, Kansas City, Mo.	8,725	120 days.
Wm. Wright & Co., Detroit	11,333	5 mos.
" "	8,133	5 "
L. A. Thies, Chicago, Ill.	7,795	6 "
L. T. Hunerkopf, Atlanta, Ga.	5,890	15 w'ks.
Kilm E. Geyser, Pittsburg, Pa.	7,865	*91 days.

*Working days.

CHICAGO, ILL.—Plans have been prepared, according to reports, for a store and flat building to be erected at North Ave. and Wells St. for Mrs. Louise H. Boldenweck; estimated cost, $70,000. Archs., Huehl & Schmid, 59 Metropolitan Block.

LA CROSSE, WIS.—Bids were asked until March 7 for the erection of a church building for Christ Church. J. J. Wilkins, D. D., Rector, informs us that the structure will be built of stone on the Romanesque style, and will cost about $25,000. Archs., Detweiler, Resticaux & Co., Eberly Block, Columbus, O.

WEST BEND, WIS.—H. S. Pelton & Co., of Milwaukee, Wis., are reported to have been awarded the contract for erecting an insane asylum building at this place, at $28,756. S. E. Mayer, Chn. Bldg. Com.

IOWA CITY, IA.—Bids will soon be asked, according to reports, for erecting a new college building in this city, to cost about $150,000. A. V. Sims is interested.

GIDDINGS, TEX.—Bids are asked until March 15, for plans and specifications for a court house for Lee county. I. H. Bowers, County Judge.

EUGENE, ORE.—L. N. Roney, of Eugene, has been awarded the contract for building the new court house for Lane county, at $49,785. Arch., Delos D. Neer.

BERKELEY, CAL.—E. F. Henderson, Asst. Cy. Engr., informs us that an election will be held on March 26 to vote on the question of issuing $60,000 in bonds, for the erection of a new high school building.

OAKLAND, CAL.—Bids are asked by the board of public works, until March 23, for constructing a brick engine house on 8th St., near Wood St. Secy., H. W. Thomas.

WATER-WORKS.

BOSTON, MASS.—It is stated that the Metropolitan Water Board will soon ask for bids for laying about 17,500 ft. of 36-in. pipe, and for erecting a 40,000,000-gallon distributing reservoir, gate house, etc., in Middlesex Fells, Stoneham. Bids will be asked at a later date for building a 5,000,000-gallon reservoir in Quincy, and for the pumping stations at the Chestnut Hill reservoir and at Spot Pond, Stoneham. F. P. Stearns, Ch. Engr. Distribution Dept., 3 Mount Vernon St., Boston.

EVERETT, MASS.—Bids are asked until March 15 for furnishing 1,477 lengths of 6 to 12-in. water pipe, as described in our advertising columns. James A. Wallace, Clk. Bd. Pub. Wks.

MILLVILLE, MASS.—Bids are asked until March 11 for the purchase of $12,000 of 8-year bonds for constructing the works. It is probable that the contract for constructing the works will soon be let. W. P. Harrington, Clk. Water Com.; W. H. Hawkins, Treas., Blackstone, Mass.

WESTFIELD, MASS.—John Marsden, Utica, N. Y., has been awarded the contract for laying 6¼ miles of pipe, and not Smith Bros., of Pelhamville, N. Y., as reported in our issue of last week, in which the itemized bids were given. Work will be begun as soon as the weather will permit.

WATERBURY, CONN.—Bids are asked by the board of public works until March 15 for laying mains in a number of streets, according to reports.

LOCKPORT, N. Y.—The contract between the city and the Niagara, Ontario & Lockport Power Co. and the Lockport Water & Electric Co. for a supply of 15,000,000 gallons of water daily for 10 years at $50,000 a year has been signed by the mayor and city clerk and the presidents of the two companies. This settles a matter which has been before the council since January. The water is to come from the Niagara River through a canal to be built to develop water power at Lockport, at a cost of about $6,000,000. The canal must be finished and water be ready for delivery on May 1, 1904.

PALMYRA, N. Y.—Bids are asked until April 1 for furnishing the material and for constructing the works in this village for the American Water & Gas Corporation, 66 Broadway, New York, as stated in our advertising columns. Engr., Harry A. Thompson.

PORT JEFFERSON (L. I.), N. Y.—Foster & Foye, 11 Broadway, New York, have been engaged to prepare plans and specifications for the works of the Port Jefferson Water Co.

RIVERHEAD (L. I.), N. Y.—We are informed that the Riverhead Water Co. will not do anything in regard to extending the mains before April or May. Pres., Geo. W. Cooper.

ROCHESTER, N. Y.—A bill has been introduced in the legislature incorporating a water storage dam company. The company is composed of William A. Boland, Cassium M. Wicker, Theodore W. Myers and George F. Keller, of New York, and Geo. W. Rafter, C. E., Rochester. Capital stock, $3,000,000, with power to increase to $12,000,000. The company is authorized to construct and maintain a reservoir near Portageville, with spillway crest set at a height of 118 ft. above the level of the river. A report states that Mr. Rafter claims that with the dam the horse power in the city would never fall below 30,000. In summer it is now frequently as low as 5,000 or 6,000 HP.

SENECA FALLS, N. Y.—Bids are asked until April 1 for laying 12,000 ft. of 10-in. water pipe between this place and Waterloo, as stated in our advertising columns. Engr., Harry A. Thompson, American Water & Gas Corporation, 66 Broadway, New York.

SIDNEY, N. Y.—The Sidney Water-Works Co. proposes to lay a main conduit, build a reservoir, filter plant, etc. Pres., Henry W. Clark.

SPENCER, N. Y.—The question of building works and a light plant is being considered.

CAMDEN, N. J.—The Centre Township Water Co., of Camden county, has been incorporated with a capital stock of $1,000, with all paid in: Joseph S. Keen, Jr., and H. Bayard Hodge, 1319 Filbert St., Philadelphia; Joseph W. Hawley, Media, Pa.; John O. White, Jesse S. White and Ephraim T. Gill, Camden, and Peter V. Voorhees, Centre Township.

JERSEY CITY, N. J.—The street and water board has decided to enter into a contract to supply Ellis Island with water at $100 a 1,000,000 gallons. The U. S. Treasury Department will lay the mains.——It will be some time before definite information can be secured in regard to awarding the contract for furnishing this city with water, the bids for which were given in our news columns last week.

PERTH AMBOY, N. J.—The following bids were received by the aldermen last week for furnishing a 4,000,000-gallon pump for the works at Runyon; Supt., G. W. Eggert: M. T. Davidson, Brooklyn, N. Y., $11,000; George F. Blake Mfg. Co., New York, $18,500; Barr Pumping Engine Co., Philadelphia; H. R. Worthington, New York, $16,000; A. J. L. Lovetz & Son, $12,750.

CAMBRIDGE SPRINGS, PA.—J. C. Allen, Mayor, writes us that action in regard to the proposed works will soon be taken. The citizens voted Feb. 15 to issue $20,000 in bonds for the works.

CARBONDALE, PA.—A. Pascoe, Treas. Crystal Lake Water Co., writes us that it has not been decided to build a reservoir this year.

MEDIA, PA.—It is stated that the council will spend $20,000 in improving the works. Plans and specifications will probably soon be prepared. E. A. Price, Burgess.

PARNASSUS, PA.—Bids were received March 7 for constructing the works and sewerage system, to cost about $27,000. E. D. Cree, Clk.

READING, PA.—Geo. H. Felix, Pres. Water Bd., writes us that the commissioners have recommended to councils that a loan of $225,000 be made for the purpose of providing a sand filtration plant. Nothing definite will be done in the matter until the people are asked to vote in favor of such a loan, which will not be before the general election in November. The report of the commissioners and the engineer, and Allen Hazen, Consult. Engr., New York, will be ready for distribution about April 15.

GEORGETOWN, DEL.—This city elected councilmen March 5, who favor the construction of the proposed works. Councilmen James H. McGlothen and W. F. Tunnell may be addressed.

BOONSBORO, MD.—Chas. E. Koogle, Clk., writes us that this town voted March 7 to contract with a company for water for fire protection and for letting a franchise.

PETERSBURG, VA.—We are informed that the price asked for furnishing a new water supply was such that the authorities abandoned negotiations. They are now installing meters throughout the city, hoping thereby to reduce the consumption within the supply of water now available. The prices paid were given in our issue of last week under Contract Prices. T. R. Dunn, Cy. Engr.

RICHMOND, VA.—Bids are asked until March 16 for furnishing 478 ⅝-in. water meters, 53 ¾-in. and 18 1-in. meters, 3 to 8-in. gate valves, 3,000 lbs. of special castings, tapping cocks, stop cocks, 1,400 meter boxes, etc. Chas. E. Bolling, Supt. Water-Works.

WHEELING, W. VA.—The water board has recommended the purchase of a 12,000,000-gallon pump for about $75,000. H. F. Jones, Pres. Bd., and Mayor Butts may be addressed.

LUMBERTON, N. C.—It is reported that bids will soon be asked for furnishing 2,500 ft. of water mains, a 70,000-gallon tank, etc. Population (1890), 584. E. K. Proctor, Mayor.

ATLANTA, GA.—It has been decided to postpone the election called for April 6 to vote on the question of issuing $200,000 in bonds for extending the mains. Geo. Hillyer, Pres. Water Bd.

ELBERTON, GA.—Geo. J. Baldwin, 39 Cotton Exchange Bldg., New York, has the contract for constructing works, to cost about $25,000, as noted in our issue of last week.

COLUMBUS, MISS.—H. M. Lanier, City Marshal, writes us that an election will be held March 23 to vote on the question of issuing about $70,000 in bonds for extending the works and for constructing a sewerage system. E. C. Chapman and P. Galvin are on the committee.

GENEVA, O.—C. E. Barnum, Chn. Com., writes us that it is hoped to vote on the question of building works, to cost about $35,000, early in the spring, but there is considerable opposition to it in the council. Des. Engr., Paul Voorhees, Guaranty Bldg., Buffalo.

ELYRIA, O.—A resolution has been passed by the council to submit to the people on April 4 the question of issuing $250,000 in bonds for erecting works. W. H. Parks, Clk.; Henry J. Eady is on the committee.

MARTINS FERRY, O.—The proposed new machinery required for the works, noted in our issue of last week, will include a 4,000,000-gallon pumping engine, with boiler, also a 20-in. force main in place of the 12-in. one from the power house to the reservoir, a 24-in. suction pipe, etc.; estimated cost, $35,000. Supt., C. S. Moore.

NORWOOD, O.—Bids are asked until March 24 for furnishing and laying 12-in. water pipe. J. A. Brockhoff, Clk. Trustees.

SANDUSKY, O.—Bids are asked until March 17 for furnishing 4,500 lin. ft. of 8-in. cast-iron pipe, check, $100. F. W. Bauer, Secy. and Supt.

WELLINGTON, O.—Arrangements are reported as being made for the immediate construction of the proposed works and extension of the light plant, for which the people voted to issue $30,000 in bonds Jan. 29. G. G. Couch, Mayor.

AUBURN, IND.—Bids are asked until April 20 for constructing works, to include 6 3-5 miles of 4 to 12-in. mains, two 1,000,000-gallon pumps, boilers, engines, etc. J. J. Van Auken, Cy. Engr.

EVANSVILLE, IND.—The clerk of the water board is asking for bids for furnishing 145 tons of 20-in. mains for immediate delivery. Supt., J. W. Peck.

FORT WAYNE, IND.—John Sulzer submitted the lowest bid to the water board March 3 for constructing a pumping station, at $14,674.

TERRE HAUTE, IND.—The Manufacturers' Water Co. has been incorporated with a capital stock of $15,000, by H. I. Miller, Crawford Fairbanks, Robt. S. Cox and W. L. Kidder. The company has asked for a franchise to furnish water.

VEEDERSBURG, IND.—C. A. Ellis, Cy. Engr., of Kansas City, Kan., writes us that work on the system and light plant will be begun March 10; estimated cost, $26,500.

GRAND RAPIDS, MICH.—The water board has recommended the laying of 16,990 ft. of mains, at a cost of $11,800. The contract for furnishing the pipe during the year was recently awarded to the Lake Shore Foundry Co., Cleveland, O., at $15.85 a ton. Supt., John Van Amberg.

WYANDOTTE, MICH.—The council is reported to be considering the question of asking the citizens to vote next month on the question of securing a new water filter, to cost about $7,000. Supt., U. N. Ocobock.

CENTRALIA, ILL.—The council is said to have decided to build a new storage reservoir at Crooked Creek in order to provide an additional water supply. Population (1890), 4,763.

WYANET, ILL.—The village board is considering the question of building works.

GRINNEL, IA.—C. H. Verbeck, Supt., writes us that it is expected to build a new cistern or tank; estimated cost, $1,200.

SHELL ROCK, IA.—Geo. A. McIntyre, Mayor, writes us that this place will vote, March 28, on the question of issuing $5,000 in bonds for works; population, 900.

MORRIS, MINN.—Anton Watzke, Pres. Council, writes us that the question of building works has not been decided upon. A report states that it is probable that the question will be submitted to the voters at the spring election; estimated cost, $25,000.

WHEATON, MINN.—The question of issuing bonds for the proposed works will be voted upon at the spring election. Population, 1,200. Engr., M. B. Haynes, 201 South Front St., Mankato, Minn.

ASHLAND, NEB.—The question of repairing the works in East Ashland will probably be submitted to the voters at the spring election. Mayor Railsback may be addressed.

BEATRICE, NEB.—It is stated that the state board of public lands and buildings has decided to have new works put in at the institute for feeble-minded, east of this city. Work has already been commenced. A $3,000 stand-pipe and new pumping machinery will be erected.

CHAMBERLAIN, S. DAK.—Bids are asked by John Flinn, Supt. U. S. Indian Service, Chamberlain, for constructing works and a sewerage system.

FARGO, N. DAK.—Bids are asked until April 4 for furnishing a new compound duplex pumping engine of 3,000,000 gallons capacity, and adding two 80-HP. boilers to the water-works. The recommendation for these improvements was made by Sam. F. Crabbe, Cy. Engr., and not J. Tudor Graves, as stated in our issue of last week.

TRIPP, S. DAK.—The question of issuing $5,000 in bonds for works will be voted upon at the spring election, according to reports.

GREAT FALLS, MONT.—The council has decided to submit the question of securing a new supply from Great Springs and for constructing municipal works, to the voters. It has rejected the offer of L. G. Phelps for the purchase of the present works for about $445,000. R. J. Fitzgerald, Mayor.

CONCORDIA, MO.—Otto Walkenhorst, Cy. Clk., writes us that the council has not yet located the well for the supply for the proposed works, bonds for which were voted in February. Up to March 3 no engineer had been engaged. Population, 1,000.

CORSICANA, TEX.—W. M. Elliott is reported as making surveys for extending the mains and for increasing the water supply of the Corsicana Water Co. Receiver Harding may be addressed.

McKINNEY, TEX.—R. F. Dowell, Secy., writes us that the city will issue $30,000 of 5% gold bonds, dated April 1, for constructing the proposed works. An artesian well is being made and is now down 500 ft. A stand-pipe, 20 x 100 ft. will be built. J. M. Pearson, Mayor.

SAN ANGELO, TEX.—It is stated that the San Angelo Water-Works Co. has been reorganized with a capital stock of $50,000. The works will be extended. J. S. Millspaugh may be addressed.

TEMPLE, TEX.—The Temple Artesian Water Co. is reported to have been granted a franchise to erect new works for this place. A supply is now furnished by the Temple Water-Works Co.

GRAND JUNCTION, COLO.—The council has voted to purchase the works of the Grand Junction Water Co. for $55,000. It is stated that the works will be improved and a new water supply secured. W. P. Ela, Mayor.

SYLVAN, WASH.—The Sylvan Light & Water Co. has been incorporated with a capital stock of $500 by Wm. C. Wheeler, A. Norton Fitch and E. C. Miller.

ANTELOPE, ORE.—Plans are reported as being prepared for works to be erected this spring.

BERKELEY, CAL.—Work has begun on the 300,000-gallon reservoir for the University of California at Strawberry Canyon. The water collected will be used for irrigating and for fire service. A 10,000-gallon tank will soon be built by the city for the purpose of utilizing the water from several springs. The water will be used for street sprinkling. C. L. Huggins, City Engr.; E. F. Henderson, Ass't City Engr.

CLAREMONT, CAL.—The Union Water Co. will apply for a 5-year contract for furnishing this place with water. The company purposes to build a reservoir and secure an increased water supply. Pres., A. Thompson.

HEALDSBURG, CAL.—An election will be held March 28 to vote on the question of issuing $80,000 of 5% bonds for the purchase of works and light plant owned by Frank Koenig. W. H. Barnes, Pres. Trustees; C. H. Pond, Clk.

SAN MATEO, CAL.—The question of issuing $70,000 in bonds for constructing municipal works will probably be voted on, according to reports. Trustee Dickie may be addressed.

SONOMA, CAL.—The trustees are reported as arranging for the construction of the proposed works to cost about $25,000. L. L. Lewis may be addressed.

VENTURA, CAL.—The question of municipal ownership of the works and light plant of the Santa Ana Water Co. is being considered, according to reports.

TUCSON, ARIZ.—Press reports state as follows: A proposition made by the Southern Pacific R. R. Co. to supply Tucson with water has been accepted by the council and a committee of members of the board of trade is securing signatures to a petition for the issuance of $15,000 in bonds.

COALVILLE, UTAH.—T. L. Allen, Mayor, writes us that the city has under consideration the question of building works and a jail. The water supply will be secured from the river two miles distant. Population, 1,700.

SARNIA, ONT.—We are informed that the following bids were received Feb. 18 by the water and light committee for furnishing a high-duty pumping engine for the water-works:

	3,000,000 gals. 1 pump.	2,000,000 gals. 2 pumps.	1,500,000 gals. 2 pumps.
Holly Mfg. Co., Lockport, N. Y.	$10,768	....	....
Kerr Engine Co	9,700	....	....
Goldies & McCullough	12,000	$16,800	$15,000
[1]Laidlaw-Dunn-Gordon Co	10,550	13,500	11,500
Henry Worthington, New York.	8,180	12,031	10,662
[2]John Ingles & Son	11,000	15,250	12,500
London Machine Co., London, Ont	11,000	13,500	12,300
Snow Steam Pump Wks., Buffalo	12,057	18,252	18,352

[1]Cincinnati, [2]Niagara Falls, Ont.

SEWERAGE.

BOSTON, MASS.—Bids are asked until March 26 for constructing 4,500 ft. of 18 and 15-in. pipe sewers; average cut 13.5 and 12.4 ft. Wm. M. Brown, Ch. Engr. Metropolitan Sewerage Comrs., Mount Vernon St.

MERIDEN, CONN.—The committee has recommended the extension of the sewers about 24,000 ft. in a number of streets.

NEW HAVEN, CONN.—Bids are asked until March 12 for furnishing sewer castings, sewer pipe, cement, stone, blocks etc. C. W. Kelly, Cy. Engr.

GLENS FALLS, N. Y.—It is proposed to reconstruct sewers in certain streets, at a cost of $2,500. Cy. Engr., Geo. P. Slade; Clk., C. F. King.

MOUNT VERNON, N. Y.—We are informed that at the council meeting Feb. 21 the committee, in conjunction with Harry P. McTague, Comr. Pub. Wks., was authorized to erect a suitable building and to purchase machinery necessary to establish and maintain a single pumping station near the Bronx River.

SYRACUSE, N. Y.—The council has voted to construct pipe sewers in a number of streets at a cost of about $25,000. M. Z. Haven, Cy. Clk.

ELIZABETH, N. J.—The following bids were received by N. K. Thompson, St. Comr., March 1, for constructing 2,775 ft. of 24, 20 and 12-in. pipe sewers in Broad St.: Connolly Bros., $9,813; P. Faughman, $11,931; John Driscoll, $11,356; John M. Harbaugh, $9,749; Matthew Wade, $6,935; John Mellow, $7,961; W. H. Waters, $9,438; Robert Wilson, $12,040; Donohue & McKeon, $10,871; W. J. McCloud, $8,804, and Antone Carter, $8,042, all of whom are local, and R. L. Rebill, Jersey City, $8,623.

PASSAIC, N. J.—It is proposed to construct an 18-in. pipe sewer in Monroe St., from Second St. to the Passaic River. R. B. Tindall, Cy. Clk.

WOODBURY, N. J.—The council is considering the question of constructing a system and for paving certain streets.

IRWIN, PA.—It is reported that the construction of a system and the paving of certain streets is being discussed.

PARNASSUS, PA.—Bids were received March 7 for constructing a system and water-works, to cost $27,000. E. D. Cree, Borough Clk.

PITTSBURG, PA.—Bids are asked by the department of public works until March 18 for the construction of sundry sewers in this city. Director, Edward M. Bigelow.

SOUTH BETHLEHEM, PA.—The council is considering the question of submitting to the people the question of issuing $100,000 in bonds for constructing a system. Councilmen Brinker and Graham may be addressed.

WASHINGTON, PA.—It is proposed to issue $60,000 in bonds for constructing a system and for paving.

DANVILLE, VA.—C. A. Ballou, Cy. Engr., writes us that no action has yet been taken in regard to the proposed system. J. A. Anderson, E. G. Moseley and D. J. Holcombe are on the committee.

NEWPORT NEWS, VA.—Bids are asked until March 31 for constructing a system, as described in our advertising columns; estimated cost, $75,000. Engr., Alex. Potter, New York; Mayor, W. A. Post; Cy. Clk., J. A. Massie.

SPARTANBURG, S. C.—Jos. Easford, Cy. Clk., writes us that L. J. Ludlow, Winston, N. C., has been engaged to make surveys and prepare plans for the proposed system; estimated cost, $50,000.

ATLANTA, GA.—Local papers state that the council will probably reject the bids received Feb. 7 for furnishing sewer pipe, castings, paving blocks, etc. The bids were given in our issue of last week under Contract Prices. New specifications will be prepared and new bids asked. Mayor Collier and City Engineer Clayton may be addressed.

LEXINGTON, KY.—The legislature is considering a bill authorizing an appropriation of $50,000 for building a system for the Lexington Insane Asylum.

CINCINNATI, O.—Bids are asked until March 29 for constructing trunk sewers in Kemper Lane and Bloody Run and a pipe sewer in McMillan St. Aug. Herrmann, Pres. Bd. Administration.

CLEVELAND, O.—Bids are asked until March 16 for constructing sewers in five streets; check, $500; and until March 30 for constructing sewers in four streets; check, $1,000. Geo. R. Warden, Dir. Pub. Wks.

TOLEDO, O.—Bids are asked until March 14 and 21 for constructing 24-in. brick and 15-in. pipe sewers, respectively. L. B. Harris, Cy. Clk.

WINTON PLACE, O.—It is reported that this place will vote, April 4, on the question of issuing bonds for sewers.

HOLLAND, MICH.—An election will probably be held about April 4 to vote on the question of issuing $15,000 in bonds for constructing a system.

WYANDOTTE, MICH.—An election will probably be held early next month to vote on the question of issuing $30,000 in bonds for constructing a system.

LAKE BLUFF, ILL.—D. Witherstone, Clk., writes us that the question of constructing a system will probably be decided at the next council meeting. Engr., Jas. Anderson, Jr., Waukegan, Ill.; B. J. Clow and F. W. Cornish are on the committee.

ST. PAUL, MINN.—Bids are asked until March 14 for constructing a sewer in Broadway. C. H. Bronson, Clk. Bd. Pub. Wks.

WINONA, MINN.—It is reported that the committee will recommend to the council that section No. 2 of the system be built this season, at a cost of $81,000. Geo. F. Houston, Cy. Engr.; L. D. Frost, Cy. Recdr.

CHAMBERLAIN, S. DAK.—Bids are asked by John Flinn, Supt. U. S. Indian Service, Chamberlain, for constructing a system and water-works.

COLUMBIA, MO.—Hiram Phillips, 306 Orear Bldg., St. Louis, has submitted estimates for a trunk sewer. The proposition to issue bonds for the same will be submitted to the voters at the April election.

LA JUNTA, COLO.—F. T. Lewis, Cy. Engr., informs us that the following bids were received Feb. 28 for constructing 5,990 ft. of 12 to 8-in. pipe sewers, 12 brick manholes, etc.; G. S. Thompson, Clk. and Recdr.:

Bomgardner & O'Neil, La Junta, Colo.	$4,487
A. H. Cawthron, La Junta	4,434
Amos & Kraft, La Junta	4,400
Denver Swr. Pipe & Clay Co., Denver, Colo. (accepted)	3,775

SALEM, ORE.—Bids are asked by Thos. W. Potter, Supt. U. S. Indian Service, for constructing a sewerage and drainage system at Chemawa.

MADERA, CAL.—C. J. Eubanks, County Clk., writes us that this place failed to hold an election Feb. 26 to vote on the question of building a system.

REDLANDS, CAL.—We are informed that this place has ordered the construction of 1½ miles of sewers. Cy. Engr., W. B. Rider.

SANTA ANA, CAL.—W. B. Rider, Redlands, Cal., completed plans for a system for this place several weeks ago. Bids are now being asked for the purchase of $65,000 of 4½% 40-year bonds for constructing the system, voted for last month, as stated in our issue of Feb. 24.

SANTA MONICA, CAL.—The town trustees on Feb. 22 decided to reject the bids received Jan 31 for constructing an outfall sewer, screen house, etc.; estimated cost, $14,000. New bids will be asked at once.

GARBAGE DISPOSAL—STREET CLEANING

HAZLETON, PA.—Specifications have been adopted for the collection and removal of garbage waste and dead animals. It is probable that bids will soon be asked. Councilman Dewellyn and Wetzstein may be addressed.

PHILADELPHIA, PA.—The Philadelphia Incinerating Co. has been incorporated with a capital stock of $100,000 by John M. Mack, A. M. Slack, Thos. Parker and others.

BALTIMORE, MD.—Dr. Jas. F. McShane, Comr. of Health, writes us that nothing has yet been accomplished in regard to a garbage disposal plant to cost $100,000. A. W. Bostwick, Comr. St. Cleaning, should be addressed.

MEMPHIS, TENN.—Dr. Heber Jones, Pres. Bd. of Health, it is stated, will recommend the purchase of a garbage disposal plant.

STREETS AND ROADS.

SALEM, N. H.—It has been voted to construct a macadam road from North Salem to Messers, a distance of about 15 miles. The committee consists of T. M. Ross, K. McLaughlin, Frank Kimball, Levi Taylor and James Evins.

BOSTON, MASS.—Reports state that estimates for granite block paving have been submitted to the board of aldermen as follows: Harrison Ave., $41,400; Malden St., $16,800; Plimpton Ave., $10,700. Benj. W. Wells, Supt. Sts.

BRIDGEPORT, CONN.—Bids are asked until March 15 for laying about 12,000 sq. ft. of asphalt walk along the sea wall at Seaside Park. W. W. Starr, Clk. Bd. Park Comrs.

HARTFORD, CONN.—The following appropriations have been recommended by the street commissioners: Repairing pavements, $32,867; grading, $18,000; Pope Park highways, $3,438. C. H. Bunce, Cy. Surv.

BUFFALO, N. Y.—A contract has been awarded to the Barber Asphalt Paving Co., New York, at $8.732 for paving Landon St. from Humboldt Parkway to Fillmore Ave. with asphalt.

BINGHAMTON, N. Y.—Bids are asked until March 23 for paving in Derussey St., as stated in our advertising columns. B. W. Mosher, Cy. Clk.

MOUNT VERNON, N. Y.—Bids are asked until March 15 for grading, paving, etc., certain roads and highways in Eastchester, as stated in our advertising columns. Wm. J. Fisher, Town Clk.

SCRANTON, PA.—This city proposes to construct a new street, 60 ft. wide, from the Spruce St. bridge to Prospect Ave.

PITTSBURG, PA.—Estimates have been submitted to the council amounting to $231,000 for the proposed paving in 61 streets.

PITTSBURG, PA.—Bids are asked by the department of public works, until March 18, for grading, paving, curbing and the laying of sidewalks in sundry streets. Director, Edward M. Bigelow.

READING, PA.—Reports state that the estimated cost of the proposed asphalt paving in South Ninth St. is $21,762. Samuel S. Hoff, Cy. Engr.——The committee has recommended paving portions of 14 streets with asphalt and 11 streets with rubble stone. J. L. Douglas, Chn. Bd.

ROCKVILLE, MD.—It is proposed to construct a macadam road eight miles long, from Rockville to the District of Columbia and also grade and macadamize the Tennallytown Road from Rockville to Georgetown; estimated cost, $25,000.

BALTIMORE, MD.—It is reported that the following estimates have been submitted to the council for brick paving: O'Donnell St., $30,000; Steeper St., $9,650; Patuxent St., $19,350.

BREVARD, N. C.—Reports state that J. F. Hays, E. C. Wilson, J. C. Cooper and W. L. Hume have incorporated the Transylvania Turnpike Co. with a capital stock of $5,000, for constructing a certain highway.

CHARLESTON, S. C.—Bids are asked until March 12 for furnishing 5,000 cu. yds. of cement gravel, 150,000 granite blocks and 70,000 ft. of stone curbing. J. B. Keckeley, Supt. Sts.

LYNCHBURG, VA.—L. P. Rodes, Cy. Engr., informs us that an appropriation of $55,000 has been recommended for street work this year. J. I. Lee, Chn. St. Com.

MORGANTOWN, W. VA.—Reports state that the question of issuing street improvement bonds will soon be voted upon.

LOUISVILLE, KY.—This city will lay 2,000 lin. ft. of granite paving in Hamilton Ave. this season.

NEWPORT, KY.—Bids are asked until March 16 for brick paving in York St., as stated in our advertising columns. W. L. Glazier, Cy. Engr.

CANTON, O.—An ordinance has been passed to pave East Eighth St. from Market St. to Cherry St. with block. L. N. Ley, Cy. Clk.

LORAINE, O.—An election will be held March 16, according to reports, to vote on the proposed issue of $7,000 in street improvement bonds.

TOLEDO, O.—Bids are asked until March 28 for brick or block paving in Boston St. and Kenilworth Ave.

INDIANAPOLIS, IND.—Bids are asked until March 29 for constructing five roads in Indian Creek township, a total distance of about 14 miles; and also eight roads in Shawswick township, a total distance of about 17 miles. John B. Malott, County Audr.

SOUTH BEND, IND.—A petition has been presented to the council for asphalt paving in South Lafayette St. from Washington St. to the Lake Shore R. R. tracks.

SAGINAW, MICH.—The plans submitted by the board of public works for improving Hamilton St. from Court to Bristol St., to cost about $29,000, have been approved; also for improving Germania Ave. from Genesee to Park Ave.

GRAND RAPIDS, MICH.—The board of public works wishes to purchase a seven-ton road roller, costing from $1,800 to $2,500.

BELLEVILLE, ILL.—T. W. Puderer, Cy. Clk., informs us that the following bids were received Feb. 19 for brick paving in High St. with Wabash block: E. F. Winckler, Pres. Bd. Pub. Wks.: C. D. Budd, St. Louis, Mo., $2,378; Maurice Hoeffken, Belleville (accepted), $2,283; Fred Daab, $2,401; Chas. A. Stookey (Gooding & Stookey block), $2,200; Phil Reeb & Bros., $2,380.

WILMETTE, ILL.—Bids are asked by the board of local improvements until March 14 for grading, curbing and macadamizing Sheridan Road, between the north line of the Wilmette Reservation and Lake Ave.

CARLINVILLE, ILL.—Bids are asked by the county board for constructing cement sidewalks on the north and south side of the court house.

EAST ST. LOUIS, ILL.—The following submitted bids on Feb. 28 for constructing about $250,000 worth of asphalt paving: Anderson & Co., M. J. Keeley & Co., Wolf, Maupin & Co., Robert J. Boyd Construction Co., O'Meara & Heiman, R. S. Conlon, Gilsinite Paving Co. and Francis McCabe.

ST. PAUL, MINN.—Bids are asked until March 14 for constructing cement sidewalks for the year 1898. John Copeland, Pres. Bd. Pub. Wks.——L. W. Rundlett, Cy. Engr., has submitted an estimate of about $9,500 for paving Market St. with asphalt from Third St. to Sixth St., according to reports.

OSHKOSH, WIS.—Bids are asked by the board of public works until March 28 for macadamizing New York Ave., according to reports. Casper Fluor, Chn. Com.

OMAHA, NEB.—Bids are asked until April 2 for macadam, brick, sandstone or granite paving on the extension of Center St. and West Dodge St. D. M. Haverly, County Clk.

KANSAS CITY, MO.—Bids are asked by the county commissioners for macadamizing about 15 miles of roads. F. J. Flaherty, County Surv.

ANACONDA, MONT.—A petition has been presented to the council for paving five streets.

HOUSTON, TEX.—Bids are asked until March 14 for grading, curbing, etc., in San Jacinto St., Wood St. and Preston Ave. H. B. Rice, Mayor.

SEATTLE, WASH.—Bids are asked until March 10 for grading and constructing sidewalks in First Ave. from Pike St. to Denny Way; also until March 11 for replanking portions of Westlake Ave. and Main St. Frank Olesen, Secy Bd. Pub. Wks.

NAPA, CAL.—Reports state that County Supervisor Burgess will unite with the trustees of Helena to purchase a Lindow road roller, not to cost over $400.

NEW WHATCOM, WASH.—The county commissioners are reported to have awarded the contract for constructing the Blaine-Ferndale Road, to be seven miles long, at about $3,000.

MANUFACTURING PLANTS.

FALL RIVER, MASS.—It is reported that the Enterprise Brewing Co. will erect a new brewing plant, with a capacity of about 60,000 bbls., to replace the one recently destroyed by fire. J. J. Sexton, Pres. and Gen. Mgr.

BRIDGEPORT, CONN.—Reports state that the plant of the Bridgeport Silver Plate Co., which was recently burned, will be rebuilt at once, at a cost of about $35,000. Secy., T. E. MacFarlane.

HANOVER, PA.—The large Flavine dye works and chemical works of the John S. Young Co. were destroyed by fire, Feb. 27, causing a reported loss of $40,000; insurance, $26,000.

MOUNT HOLLY SPRINGS, PA.—Work has begun on the erection of a brick plant to cost about $40,000; the building, 208 × 75 ft., to cost $25,000, and the machinery $15,000. M. B. Cowden, Cy. Engr., is said to be interested.

NORRISTOWN, PA.—Benjamin Gridley, Architect, 155 Garden St., Pawtucket, R. I., informs us that James C. Potter, 228 Broadway, Pawtucket, contemplates the erection of a plant at Ivy Rock, between Norristown and Conshohocken, for the manufacture of cotton mill machinery. The main building would be of brick, 114 × 244 ft., and two stories in height, with a boiler house, 36 × 42 ft. It is not yet definitely decided, however, whether the plant will be built or not.

PHOENIXVILLE, PA.—Arrangements have been made between Johnson, Cowdin & Co., silk manufacturers, of Paterson, N. J., and the Phoenixville Industrial Association, according to reports, for the erection of a 4-story brick mill, 300 × 50 ft., to cost about $65,000. Paul S. Reeves, Pres. of Association.

PITTSBURG, PA.—Our correspondent informs us that the plant of the Chautauqua Lake Ice Co., recently destroyed by fire, will soon be rebuilt. Thomas Rodd was the engineer and architect of the old building.

AUGUSTA, GA.—A. K. Clark, of Augusta, informs us that the machinery in the old flour mill of the Clark Milling Co. will be remodeled from buhr to roller. Water power will be used, and several mill builders have already made propositions towards providing for the same.

DYERSBURG, TENN.—A fire in this city destroyed the planing mill of the A. M. Stevens Lumber Co., including 30 dwellings and N. W. Galluct's stave factory, causing an estimated loss of $200,000; little insurance.

LEXINGTON, KY.—Permits have been granted to the National Tobacco Works and the American Tobacco Co., jointly, to erect two buildings in this city, at 17th St. and Broadway, to cost, respectively, $55,000 and $21,000.

DAYTON, O.—Reports state that the Bradley Twine & Cordage Co. will replace its burned buildings by a main building, 86 × 125 ft., with additions 50 × 100 ft., and 20 × 50 ft.

MILWAUKEE, WIS.—Plans have been prepared, according to reports, for a brick factory building for the Western Hardware Mfg Co., to be 200 × 400 ft.; estimated to cost $35,000. Arch., C. Fitzgerald.

AUBURN, NEB.—The Auburn Commercial Club has decided to form a stock company, with a capital stock of $600,000, to build a beet sugar factory. Colonel J. M. Burress, W. H. Kelligar, J. C. Killarney, J. W. Kerns and A. M. Engels are the committee in charge of the matter.

QUANAH, TEX.—The Acme Cement & Plaster Co.'s mills, four miles south of Quanah, were burned, Feb. 28, causing an estimated loss of $40,000; insurance, $20,000.

BARSTOW, CAL.—Press reports state that the Colorado Iron Works, of Denver, Colo., have been awarded the contract for constructing the new cyanide plants to be erected at Barstow. It is said that 250,000 gallons of water a day will have to be pumped from the Mojave River to a reservoir, and then piped for use at the plant.

GAS PLANTS.

NEW YORK, N. Y.—Bids are asked by the department of public charities, 66 Third Ave., until March 14, for supplying gas on Blackwell's Island for the year 1898. John W. Keller, Pres.

EAST LIVERPOOL, O.—Reports state that the Bridgewater Natural Gas Co. is contemplating the construction of a fuel gas plant at this place; estimated cost, $75,000.

LAWRENCEBURG, IND.—Bids are asked until April 4 for lighting the streets with gas or electricity for five years. Joseph C. Frazer, Cy. Clk.

SAN FRANCISCO, CAL.—Bids are asked by the Equitable Gas Light Co., Mill's Building, San Francisco, for furnishing generators, steel tanks, boilers, pumps, iron gas pipe, etc., according to reports.

ESCONDIDO, CAL.—J. A. Jones proposes to construct a gas plant, pipe line, etc., to cost about $5,000, and to operate the same for two years, after which the city is to purchase the plant. It is stated that work will commence in about a month.

NELSON, B. C.—Col. H. J. Evans has applied for a franchise to construct and operate gas works in this place. The matter was referred to the public works committee.

NEW COMPANIES.—Amber Oil & Gas Co., Buffalo, N. Y.; $100,000, with $25 paid in; to bore for oil and gas; Walter H. Little, E. B. Scofield, J. B. Warner, Howard Conkling, Walter C. Barker, Buffalo.

Scio Oil & Gas Co., Scio, O.; $10,000.

Illinois Oil Co., Indianapolis, Ind.; $200,000; to operate the crude oil field of Northern Indiana; D. W. Kimball, Claire L. Kimball, Chicago; Carl McFadden, Geneva, Ind.

Yukon Gas Light & Fuel Co., San Francisco, Cal.; $500,000; Geo. Dawson, J. F. Lounge, J. H. Smith, H. S. Kozminsky, Herbert Choynsky, San Francisco.

New Amsterdam Gas Co., New York, N. Y.; the consolidation of the Equitable Gas Light Co., the New York & East River Gas Light Co. and the New Amstetrdam Gas Co.; $10,000,000; James W. Tolfree, William C. Lane, Edward M. Filler, Noel Gale, Frederick L. Eldridge, William C. Cox, William T. Eldridge, Sherman Flint, Frederick P. Voorhees, Matthew T. Johnston, John B. Summerfield, New York city.

MISCELLANEOUS CONTRACTS.

DITCH.—Princeton, Ind.—Bids are asked by the county clerk until March 22 for constructing a ditch about 10 miles long.

BONDS.—Buffalo, N. Y.—Bids are asked until March 16 for the purchase of $89,138 of grade crossing bonds. Comptroller, Erastus C. Knight.

CULVERT.—Redlands, Cal.—Bids are asked until March 16 for constructing a culvert at the intersection of Eureka St. and Brookside Ave. L. W. Clark, Clk.

BREAKWATER. — Summerside, P. E. I. — Bids are asked until March 15 for constructing a breakwater at this place. E. F. E. Roy, Secy. Dep. Pub. Wks., Ottawa, Ont.

DRY DOCK.—Detroit, Mich.—Reports state that the Detroit Dock Co. will soon build a dry dock for the accommodation of the lake ships, either at this place or at Wyandotte.

CANAL PIER.—Duluth, Minn.—Reports state that King & Steel, who have the contract for constructing the substructure of the south pier of the Duluth ship canal, will begin work about April 1.

REMOVING WRECK.—Portland, Me.—Bids are asked until March 31 for removing a wreck from Deer Island Thoroughfare, Me., as stated in our advertising columns. Maj. R. L. Hoxie, U. S. Engr., Portland.

STERILIZING APPARATUS.—Chicago, Ill.—Bids are asked until March 14 for installing a sterilizing apparatus at the Cook County Hospital. E. D. Northam, Supt. Pub. Service; D. D. Healy, Pres. County Bd.

CEMENT.—Portland, Me.—Bids are asked until March 3 for furnishing 6,000 bbls. of Portland cement and 3,000 bbls of natural cement, as stated in our advertising columns. Maj. R. L. Hoxie, U. S. Engr., Portland.

FIRE ALARM SYSTEM.—Weehawken, N. J.—Local papers state that the council has been petitioned for the installation of an electric fire alarm system for this place, to cost about $5,000. John Reilly, Ch. Fire Dept.

TELEPHONE FRANCHISE.—Minneapolis, Minn.—A franchise has been granted to the Mississippi Valley Telephone Co. for constructing lines and an exchange to be operated in this city. J. C. Hubinger, Keokuk, Ia., may be addressed.

LEDGE EXCAVATION AND DREDGING.—Rockland Harbor, Me.—Bids are asked until April 9 for ledge excavation and dredging in Rockland Harbor, Me., as stated in our advertising columns. Maj. R. L. Hoxie, U. S. Engr., 537 Congress St., Portland, Me.

MAINTAINING BUOYS.—Buffalo, N. Y.—Bids are asked until March 15 for maintaining the buoys in Niagara River at Waverly Shoal and in the approaches to the harbor of Buffalo for one year. Theo. F. Jewell, Commander, U. S. N., Light House Inspector, Buffalo.

BREAKWATER.—Cleveland, O.—Bids will soon be asked by Col. Jared A. Smith, U. S. Engr., Cleveland, for constructing the extension to the east breakwater, which will be about one mile in length. About 3,000 ft. of the work will probably be finished before next winter.

PIPE LINE.—Pottstown, Pa.—Press reports state that the National Transit Co. is arranging to lay another section of pipe line through this district, extending from Douglassville, five miles west of this borough, into New Jersey, a distance of 42 miles. The 8-in. pipe recently laid is not large enough to handle the product of two 6-in. pipes which run from Millway to the gate house at Douglassville. A new 8-in. pipe will be put down, which will double the carrying capacity of this section. Iron piping will be used instead of steel.

LOCK AND APPROACHES.—Plaquemine, La.—Bids are asked until April 15 for constructing the lock and approaches to the Bayou Plaquemine, as stated in our advertising columns. The following work is included: Concrete, 84,613 cu. yds.; granite, 6,304 cu. ft.; medium steel, 1,188,019 lbs.; high steel forged, 16,600 lbs.; high steel cast, 206,372 lbs; cast iron, 125,342 lbs.; bronze, 275 lbs.; iron pipe for walk, 1¼ ins., 1,565 ft. lin.; timber for walk, 1,273 ft. B. M.; sluice valves, 16 for gates, and excavation, 300,000 cu. yds. Maj. Jas. B. Quinn, U. S. Engr., New Orleans; P. H. Thomson, Asst. U. S. Engr.

WOODEN PIER.—New York, N. Y.—The following bids were received March 4 by the department of Docks for the construction of a wooden pier at the foot of East Fourth St.:

John W. Flaherty, 41 Peck slip	$10,446
Wm. H. Jenks, 152 Pearl St.	10,800
Bernard Rolf, 39 Cortlandt St.	11,933
John Monks & Son, 130 Water St.	12,995
B. S. Cronin, Brooklyn	13,240
H. M. Conklin, 147 E. 125th St.	13,880
P. S. Ross, Jersey City, N. J.	14,450
Spearin & Preston, 11 Broadway	14,865

CONTRACT PRICES.

HIGHWAY.—Hohokus, N. J.—We are informed that the following bids were received March 1 for constructing the river road at Pleasant Valley, Undercliff, Bergen county; Engr., F. A. Dunham, 220 Broadway, New York, and Plainfield, N. J.:

Quantities.		P. Sanford Ross, Jersey City.	J. A. Winterburn, Edgewater, N. J.	D. Bowden & Co., Plainfield, N. J.
Clearing and grubbing		$25.00	$50.00	$45.00
Excavation	800 cu. yds.	.30	.40	.27
Embankment[1]	900 "	.38	.40	.40
Slope wall	400 sq. yds.	1.25	1.50	.75
Rip-rap	300 cu. yds.	2.25	1.50	1.35
12-in. mcad. pvmt	1,786 sq. yds.	.75	.75	.83
Paved gutter	567 " "	.45	1.00	.48
Rustic curb	1,700 lin. ft.	.20	.20	.20
Stone culverts[2]	85 " "	3.80	1.25	1.65
Stone culverts[3]	80 " "	3.80	1.20	1.25
Crosswalk	30 " "	.90	.50	.95
4-in. underdrains	200 " "	.15	.30	.18
Guard rail	600 " "	.25	.25	.35
Total, including slope wall		3,883	4,011	3,539
Total, including rip-rap		$4,058	$3,861	$3,644

[1]In excess of excavation. [2]18 × 24-in., inside measurement, including intakes and gratings. [3]18 × 18-in., inside measurement, including intakes and gratings.

BRICK SEWERS.—Terre Haute, Ind.—Geo. H. Simpson, Cy. Engr., informs us that the following bids were received March 1 for constructing 6⅞ miles of brick sewers:

Bids Received at Terre Haute, Ind., Mar. 1, for Constructing Brick Sewers.

Quantities.	Indiana Const'n Co., Terre Haute, Ind.	Thos. J. Peters, Cincinnati, O.	W. Rehling, Richmond, Ind.	J. J. Smith & Co., Cincinnati, O.	J. E. Voorhees & Co., Terre Haute, Ind.	W. Erler & Co., Terre Haute, Ind.	Jesse Robertson, Terre Haute, Ind.	T. W. Kinser & Sons, Terre Haute, Ind.	W. C. Evans & Co., Peoria, Ill.
Canal System:									
Egg-shape, 28 × 42-in. .....1,500 ft....	$2.24	$2.50	$2.50	$2.71	$2.74	$2.79	$2.50	$3.71	$3.47
28 × 42-in. .....2,680 " ...	2.11	2.50	2.45	2.47	2.65	2.79	2.60	3.34	3.40
68-in. .....1,220 " ...	5.00	4.98	4.48	4.44	4.50	5.13	5.30	5.40	7.01
62-in. .....1,800 " ...	3.60	3.56	4.05	3.95	4.20	4.52	5.05	5.10	6.47
58-in. .....3,250 " ...	4.00	3.29	3.70	3.65	3.90	4.12	4.85	4.48	5.60
50-in. .....2,650 " ...	2.88	2.93	3.32	3.40	3.30	4.06	4.23	4.16	5.24
48-in. .....3,150 " ...	2.74	2.80	3.12	3.15	3.25	3.82	3.75	3.89	4.88
48-in. .....2,700 " ...	2.89	2.80	3.26	3.40	3.20	3.82	4.15	4.32	4.88
38-in. .....2,650 " ...	2.03	2.41	2.55	2.73	2.70	3.10	3.00	3.32	4.06
Hulman System: 80-in. .....2,660 " ...	5.00	4.95	5.25	5.00	8.25	6.68	6.35	5.79	7.32
74 in. .....2,000 " ...	4.12	4.19	4.65	4.63	7.90	6.35	5.70	5.43	6.91
64-in. .....1,320 " ...	3.45	3.58	4.16	3.99	5.10	4.64	4.85	4.72	6.33
62-in. .....2,150 " ...	3.36	3.28	3.90	3.90	4.75	4.74	4.95	4.50	5.70
54-in. .....1,580 " ...	3.00	3.24	3.45	3.49	4.00	4.31	4.00	4.21	5.26
48-in. .....3,900 " ...	2.48	2.70	3.00	3.12	3.65	4.00	3.70	3.68	4.49
Both Systems: Catchbasins .... 97 each.	40.00	51.00	40.00	50.00	40.00	48.50	45.00	40.15	64.00
Manholes .....82 "	25.00	25.00	27.00	40.00	35.00	28.50	35.00	28.00	44.45
6-in. slants .....1,800 "	.25	.25	.08	.25	.30	.30	.15	.20	.40
10-in. " .....300 "	.40	.40	.15	.40	.45	.42	.30	.40	.50
Total for Canal System	$67,810	$68,702	$72,928	$75,471	$76,025	$84,678	$88,216	$92,456	$112,078
Hulman System	50,460	52,155	56,929	57,544	78,360	72,434	69,271	65,969	85,415

BRICK PAVING.—Albany, N. Y.—Mulderry Bros., Albany, received the following contract, March 7, for brick paving in Colby St., from Central Ave. to Second St.: Vitrified brick, 2,800 sq. yds., $1.76; granite curb, straight, 1,210 lin. ft., 40 cts.; granite curb, circular, 80 ft., 45 cts.; pavement relaid on concrete, 5 yds., 75 cts.; curb relaid on concrete, 50 ft., 25 cts.; new vitrified brick sidewalks, 4,300 sq. ft., 8 cts.; 4-ft. flag, 4,160 ft., 14 cts.; sidewalk relaid, 900 ft., 4 cts.; sod, 1,200 sq. yds., 3 cts.; days to complete, at $5, $16, and total, $6,639.

MACADAM ROAD.—Dennis, Mass.—A. B. Fletcher, Secy. State Highway Comn., Boston, informs us that the following bids were received March 3 for building a macadam road in Dennis; contract awarded A. J. Wellington, Boston:

Bids Received at Dennis, Mass., Mar. 3, for Building a Macadam Road.

Quantities.		Hale & Whipple, Buzzard's Bay.	Keene & Foster, Boston.	A. J. Wellington, Boston.	A. W. Brine, W. Medford.	Asa Goddard, Worcester.	J. S. Lane & Sons, Springfield.
Excavation	2,460 cu. yds.	$0.25	$0.30	$0.25	$0.23	$0.30	$0.25
Excavation, borrow	1,965 " "	.28	.33	.30	.20	.37	.25
Rubble masonry laid dry	17 " "	2.50	4.00	4.00	4.00	3.00	3.50
" laid in cement	28 " "	4.25	8.00	8.00	5.00	8.00	6.00
Shaping	20,799 sq. yds.	.02	.02	.02	.05	.015	.02
Broken stone in place	5,346 tons	1.45	1.46	1.30	1.45	1.33	1.45
12-in. vitrified clay pipe	96 lin. ft.	.45	.60	.60	1.00	.55	.50
Fencing used as guard rail	1,800 " "	.12	.15	.25	.20	.15	.15
Finishing between limits	Labor, per hr.	.20	.20	.20	.20	.20	.175
	Double teams	.59	.50	.50	.65	.50	.50
	Single teams	.35	.35	.35	.40	.35	.35
Stone monuments	25 each	1.50	1.50	1.50	2.00	1.50	1.50
10-in. vitrified clay pipe	93 lin. ft.	.40	.52	.60	.80	.50	.45
15-in. " " "	36 " "	.65	.75	.80	1.00	.75	.65
10-in. iron pipe	120 " "	.35	1.10	1.30	1.50	1.65	1.00
Catchbasins	6 each	20.00	25.00	20.00	30.00	20.00	22.50
Totals		$10,014	$10,622	$9,768	$10,935	$9,914	$10,177

BRICK PAVING.—Albany, N.Y.—The following bids were received by the board of contract March 7 for brick paving in Second St., from Watervliet Ave. to Colby St.; contract awarded T. Henry Dumary:

Quantities.		T. H. Dumary.	Pat'k H. Reilly.	Mulderry Bros.	Edw. F. Dillon.
Brick	2,930 sq. yds.	$1.70	$2.00	$1.82	$1.82
Granite curb:					
Straight	1,340 lin. ft.	.30	.67	.40	.50
Circular	32 " "	.75	.67	.40	.60
Relaid on concrete:					
Pavement	5 sq. yds.	.40	2.00	.75	1.25
Curb	50 lin. ft.	.20	.75	.25	.15
Sidewalks:					
New vit. bricks	9,000 sq. ft.	.08	.09	.08	.09
5-ft. flag	4,500 " "	.15	.15	.14½	.16
Relaid	2,000 " "	.03	.02½	.04	.03
Recvg basins	2 each	70.00	75.00	70.00	55.00
6-in. vit. pipe	350 lin. ft.	.70	.45	.40	.30
Bends	18 each	.35	.50	.25	.35
Sod	1,300 sq. yds.	.15	.80	.15	.15
Days to complete @ $5.00		10	20	10	15
Total		$7,510	$9,818	$7,910	$8,117

PAVING.—Albany, N. Y.—Our correspondent informs us that the following bids were received March 7 by the board of contract for brick paving in Hunter Ave., from Watervliet Ave. to Colby St.; bid of Mulderry Bros. accepted, they to use Catskill brick; all local bidders:

Quantities.		T. H. Dumary.	Pat'k H. Reilly.	Mulderry Bros.	Edw. F. Dillon.
Vit. brick	2,200 sq. yds.	$1.80	$2.10	$1.76	$1.94
Granite curb:					
Straight	1,080 lin. ft.	.30	.67	.40	.50
Circular	32 " "	.75	.67	.40	.60
Pvmt reld on con.	5 sq. yds.	.50	2.00	.75	1.25
Curb reld on con	50 lin. ft.	.20	.75	.25	.15
Sidewalks:					
New vit. brks.	10,000 sq. ft.	.08	.09	.08	.09
4-ft. flags	1,030 " "	.14	.13¾	.13½	.14
Relaying	3,600 " "	.03	.02½	.04	.03
Recvg basins	2 each	70.00	75.00	70.00	55.00
6-in. vit. pipe	150 lin. ft.	.75	.55	.40	.30
Sod	1,100 sq. yds.	.15	1.00	.03	.15
Days to complete @ $5.00		10	20	14	15
Total		$5,840	$7,977	$5,719	$6,388

SEWERS.—Tampa, Fla.—J. N. Hazlehurst, Cy. Engr., Tampa, informs us that the following bids were received Feb. 28 for constructing sewers, as advertised in Engineering News; contract was awarded Jacob S. Friday & Sons, Charleston, S. C., and Pittsburg, Pa.:

Bids Received at Tampa, Fla., Feb. 28, for Constructing Sewers.

Quantities.		Jacob S. Friday & Sons, Pittsburg, Pa.	Guild & Co., Chattanooga, Tenn.	S. O. Lenard Co., Tampa[1] Fla.	Jos. Bryan, Jacksonville, Fla.	E. H. Post, New York.	Bisbee & Foster, Jacksonville, Fla.	Sander & Porter, Louisville, Ky.	T. D. Mayo & Co., Lynn, Mass.
Furnishing & lay'g: 24-in. pipe	3,700 ft.	$1.49	$1.75	$1.82	$2.30	$1.89	$2.95	$2.75	$3.75
18-in. pipe	8,900 "	1.15	1.47	1.33	1.85	2.52	2.52	2.40	2.70
15-in. "	1,900 "	.62	.95	1.00	1.25	1.45	1.45	2.00	2.25
12-in. "	2,700 "	.50	.66	.65	.70	.73	.73	1.90	1.70
10-in. "	6,800 "	.48	.60	.65	.60	.58	.58	1.70	1.50
8-in. "	8,400 "	.30	.41	.50	.45	.33	.33	1.40	1.00
Flushtanks	8 each	61.00	75.00	58.50	65.00	75.00	55.00	80.00	75.00
Manholes	35 "	38.00	50.00	46.00	45.00	40.00	65.00	55.00	35.00
Drop manholes	60 "	43.50	45.00	52.00	60.00	60.00	75.00	65.00	40.00
Lampholes	40 "	4.70	9.00	10.00	12.50	8.00	4.95	4.00	15.00
House connections	200 "	2.35	2.50	1.08	5.00	6.00	3.50	1.00	2.00
Furnishing & lay'g: 20-in. c.-I. pipe	600 ft.	2.05	3.00	3.05	4.25	4.35	2.75	4.00	4.10
8-in. cast-iron pipe	900 "	.85	1.25	2.30	1.75	2.40	.85	1.00	1.50
4-in. underdrains	2,000 "	.07	.07	.055	.25	.15	.40	.15	.20
Concrete	100 cu. yds.	5.50	6.00	7.25	4.50	5.00	5.50	7.00	5.00
Rock excavation	100 " "	1.30	2.00	1.25	1.50	5.00	.85	1.50	5.00
Sheeting and shoring in place	100 M. ft.	10.00	15.00	13.00	12.00	15.00	11.00	10.00	6.00
Cradling and planking	30 " "	12.50	25.00	20.00	9.00	25.00	11.00	12.50	12.00
Total		$34,002	$42,988	$44,220	$53,438	$57,462	$68,031	$78,502	$79,571

[1]And Jacksonville, Fla.

MACADAMIZING.—Kansas City, Mo.—John May has been awarded the contract for macadamizing the Hewitt Road, at $1.595 a sq. yd.; bond, $5,000.

PIPE.—Nelson, B. C.—H. J. Evans & Co. submitted the following bid, Feb. 23, for furnishing water and sewer pipe: 29 cts. for 4-in; 47 cts. for 6-in.; 70 cts. for 8-in., and $1.10 for iron.

WOODEN SIDEWALKS.—St. Paul, Minn.—The following contract was awarded March 1 for laying wooden sidewalks: St. Paul Cartage Co., St. Paul, lumber in place, a 1,000 lin. ft., $15.99; excavation and embankments, 5 cts. a cu. yd.; relaying sidewalks, 8 cts. a lin. ft.

SPRINKLING.—St. Paul, Minn.—The following bids were received by the board of public works March 2 for street sprinkling: Nicholas Feyen was the lowest bidder for sprinkling in districts Nos. 1, 2, 3, 4, 5, 6, 7, 8 and 14; G. H. Croswell was the lowest in districts Nos. 10 and 11, and W. J. Preston was the lowest for sprinkling boulevards in the St. Anthony Hill district, his figures being 22½ cts. a 100 ft. a week. Feyen's bids for sprinkling were 27 24-100 cts. a 100 ft. a week in the 1st district; 20½ cts. in the 2d; 19 cts. in the 3d; 19⅔ cts. in the 4th; 19⅓ cts. in the 5th; 22⅓ cts. in the 6th; 22 21-100 in the 7th; 19⅓ cts. in the 8th; 32.9 cts. in the 14th. Croswell's bids were: 25 cts. in the 10th district, with 7 cts. for overhaul; 24½ cts. in the 11th, with 6 cts. for overhaul. The bids for sprinkling were somewhat lower last year, but this is explained from the fact that this year the specifications call for a sprinkling cart with patent attachment for every two miles of street to be sprinkled, whereas last year no number of carts were specified.

DREDGING.—Keweenaw Point, Mich.—We are informed that the following bids were received Feb. 28 by Maj. Clinton B. Sears, U. S. Engr., Duluth, Minn., for dredging in Portage Lake Ship Canal, Keweenaw Point:

Bids Received at Keweenaw Point, Mich., Feb. 28, for Dredging in Portage Lake Ship Canal.

Bidder.	Dredging, scow measurem't.— Sect'n 1, 50,000 cu. yds.	Sect'n 2, 100,000 cu. yds.	Sect'n 3, 800,000 cu. yds.	Use of dredging plant an hour.	Total.
Carkin, Stickney & Cram, Detroit, Mich	$0.17	$0.20	$0.09	$14.00	$100,500
The Lydon & Drews Co., Chicago, Ill.	.22	.24	.12	16.00	131,000
C. E. Mitchell & Co., Ludington, Mich	.19	.19	.10	9.00	108,500
Green's Dredging Co., Chicago, Ill	.15	.25	.12	10.00	128,500
The L. P. & J. A. Smith Co., Cleveland, O.	.20	.24	.12	15.00	130,000
Arthur H. Vogel, Milwaukee, Wis.	.14	.17	.10	15.00	104,000
Adolph F. Bues, Milwaukee, Wis.	.10	.12	.08	10.00	81,000
James Pryor, Houghton, Mich.	.11	.14	.09½	10.00	95,500
Racine Dredge Co., Racine, Wis.	.10	.149	.07	9.00	75,900
Geo. H. Breymann and John B. Breymann, Toledo, O.	.14	.15	.09	15.00	94,000
Green Bay Dredge & Pile Driving Co., Green Bay, Wis.	.20	.12	.08	10.00	86,000
Illinois Dredging Co., Chicago, Ill.	.12	.20	.09	15.00	98,000

STONE SIDEWALKS.—Minneapolis, Minn.—The following bids were recently received for laying stone sidewalks in the 7th Ward: The Columbia Paving Co., sidewalk, 78 cts. a sq. yd.; driveways, $1.40 a sq. yd.; Franklin Stone Sidewalk Co., sidewalk, 74 cts. a sq. yd.; driveways, $1.50 a sq. yd.; Star Paving Co., sidewalk, 72 cts. a sq. yd.; driveways, $1.25 a sq. yd.; Twin City Sidewalk & Paving Co., sidewalks, 76 cts. a sq. yd.; driveways, $1.30 a sq. yd.

INDUSTRIAL NOTES.

THE MICHIGAN PENINSULAR CAR CO., Detroit, is reported to have a contract from the Erie R. R. for 1,000 box cars and 1,000 twin-hopper gondolas for coal and ore.

THE F. C. AUSTIN MFG. CO., Chicago, whose works at Carpenter St. and Carroll Ave. were burned some weeks ago, will establish its new plant at Harvey, Ill., occupying the shops of the Harvey Steel Car Co., which is now in the hands of a receiver.

THE FRANKLIN STEEL CASTING CO., Franklin, Pa., is reported to have a contract for 1,000,000 lbs. of steel castings for the Central London Underground Ry., London, England, and are just finishing the eight generators for the Metropolitan Ry. power house, New York.

MR. HEW MILLER, Assoc. M. Am. Soc. C. E., 51 East 44th St., New York, has been appointed agent for all the United States, except the Pacific coast, of the Horsfall Furnace Syndicate, Ltd., engineers and contractors for refuse destructors.

THE NEW YORK EXPANDED METAL CO., 256 Broadway, New York, will hereafter conduct the business formerly carried on in that city by the Central Expanded Metal Co., and will engage only in the selling of expanded metal and such kindred materials as are necessary.

MESSRS. PAULING & HARNISCHFIGER, Milwaukee, Wis., have secured the contract to build for the Consolidated Traction Co., Pittsburg, a traveling crane of 60 ft. span and 55 tons capacity. It will be placed in the new power house at 22d St. and the Allegheny River. The contract price is said to be $8,000.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, Pa., has been allotted 8,000 sq. ft. of space at the Trans-Mississippi Exposition, at Omaha, Neb., according to report. An exhibit of four of the largest and most powerful locomotives especially designed for working purposes will be made, together with some of the late interesting improvements used in facilitating the speed of fast trains.

THE DAVIS & EGAN MACHINE TOOL CO., Cincinnati, has an order through its Amsterdam, Holland, office for several lathes, shapers and heavy screw machines, to be used by the Holland Government. It has also received through its London office, orders for lathes, drill presses, planers and shapers for Greenwood & Batley, machine tool builders and government contractors at Leeds, England. Business in this country is improving and the company has secured several large orders in the past week.

THE WALKER COMPANY, Cleveland, O., will shortly install two six-pole 100 K-W. lighting dynamos in the Metropolitan Museum of Art, New York. The Presbyterian Hospital in that city has also placed an order with the company for a 100 K-W. dynamo and switchboard. A three-phase 60 cycle Walker alternator for lighting and power purposes has been purchased by Mr. C. Burkhart, Hudson, Wis., and the Los Angeles Traction Co., Los Angeles, Cal., has ordered a 500 K-W. railway dynamo of the belted type and a dynamo panel for the switchboard.——Among electric railway equipments recently ordered are ten double three S equipments with type S controllers, sold to the Erie Construction Co. for the Buffalo Traction Co.; three double 40-HP. equipments with S controllers, sold to Isaac Walker & Son for the Quakertown (Pa.), Traction Co., and two double three S equipments for storage battery motor cars to S. M. Fisher for the Patton Motor Co.——The company states that the type, "S" solenoid blow-out controller is the most popular one the company has ever placed on the market, and the controller departments of its factories are turning out large numbers of the type "S" apparatus.

THE BULLOCK ELECTRIC MFG. CO., Cincinnati, has almost completed a contract at the Brooklyn navy yard, secured some months ago, consisting of motors for the equipment of the machine shops, to be belted directly to the shafts of, or coupled to various machine tools. The motors are encased in an iron dust-tight covering and are as follows: One 20 HP. belted to 30-in. circular saw; 7.5 HP. coupled direct to four-sided planer; 7.5 HP. coupled direct to sash molder; 7.5 HP. belted direct to band saw; 7.5 HP. belted direct to surface planer; 10 HP. belted; 7.5 HP. belted, and 5 HP. belted direct to 14-in. circular saw. These motors are being hurried through as fast as possible and will be shipped as soon as tested. A generator is also being built for the same shops.

THE EDWARD P. ALLIS CO., Milwaukee, Wis., has sent us a cast iron medal souvenir made to commemorate the first cast from the new furnaces of the Krainische Industrial Gesellschaft, Trieste, Austria, in November, 1897. The furnaces are driven by two Allis compound blowing engines, with steam cylinders 40 × 78 × 60 ins., and two 76 × 60-in. air cylinders.

A TESTIMONIAL.

"One of the few journals that has set for itself a high standard of work, and kept to its standard persistently, is the Engineering News. That such a course, if persisted in, will pay, from the purely commercial standpoint, is evidenced by the circulation and the amount of high-grade advertising in this journal. Its corps of editors is able and its statements are reliable; its work is accurate, and its engineering department beyond reproach. * * * * It is a pleasure to see a technical journal that is really technical and is not owned and run in the interests of some corporation." (From the "Bulletin," San Francisco, Cal., Feb. 26, 1898.)

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